**PATENT ASSIGNMENT COVER SHEET**

**SUBMISSION TYPE:** NEW ASSIGNMENT

**NATURE OF CONVEYANCE:** AMENDED AND RESTATED PATENT AND TRADEMARK SECURITY AGREEMENT

### CONVEYING PARTY DATA

<table>
<thead>
<tr>
<th>Name</th>
<th>Execution Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXTREME NETWORKS, INC.</td>
<td>10/28/2016</td>
</tr>
</tbody>
</table>

### RECEIVING PARTY DATA

<table>
<thead>
<tr>
<th>Name</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name:</td>
<td>SILICON VALLEY BANK</td>
</tr>
<tr>
<td>Street Address:</td>
<td>3003 TASMAN DRIVE</td>
</tr>
<tr>
<td>City:</td>
<td>SAN FRANCISCO</td>
</tr>
<tr>
<td>State/Country:</td>
<td>CALIFORNIA</td>
</tr>
<tr>
<td>Postal Code:</td>
<td>95054</td>
</tr>
</tbody>
</table>

### PROPERTY NUMBERS Total: 564

<table>
<thead>
<tr>
<th>Property Type</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patent Number</td>
<td>7017082</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7376951</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7660259</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8117336</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7453874</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6766482</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7003705</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8107383</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8174980</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7990850</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8797849</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7362700</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8520507</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7606240</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7483370</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7539750</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7894451</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8605732</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7823199</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8255996</td>
</tr>
<tr>
<td>Property Type</td>
<td>Number</td>
</tr>
<tr>
<td>---------------</td>
<td>---------</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8615785</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8135007</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7912091</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8730963</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8233474</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6930985</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6981174</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7111017</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7783733</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7689678</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7290263</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7343597</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7389505</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7657635</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8775571</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7149217</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6977891</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7856019</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7577996</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7568107</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7404091</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8464312</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6104700</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6859438</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6647413</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7408876</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7599292</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7286552</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8274974</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6970426</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7619971</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7719968</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6954436</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7581024</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7245619</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7724734</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7843927</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7936764</td>
</tr>
<tr>
<td>Property Type</td>
<td>Number</td>
</tr>
<tr>
<td>--------------</td>
<td>--------</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7710993</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8437359</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8331373</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8660118</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8605726</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7602721</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8055800</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7245629</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7334048</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7646773</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7580409</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7292591</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7675915</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7613209</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7668969</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7860006</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8059658</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7903666</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8204070</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7983192</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8208418</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8369344</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8160074</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8442030</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8000344</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8705532</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7733899</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7126923</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7154861</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7269135</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7672228</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7752338</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8583833</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8159936</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8279874</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7657619</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7817633</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7822033</td>
</tr>
<tr>
<td>Property Type</td>
<td>Number</td>
</tr>
<tr>
<td>---------------</td>
<td>------------</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7558273</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7499679</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7310664</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6597584</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7321926</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7448045</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7447777</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7584262</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7814204</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8412838</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7298746</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8560693</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7660894</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7817549</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6034957</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7185216</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7047515</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7366935</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7546480</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8464093</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6956816</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7272672</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7724669</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8117657</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6980550</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7400647</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7944942</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7552275</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7908431</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8139583</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7349228</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7119280</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6963311</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7142509</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6907466</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7773507</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7835348</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6023471</td>
</tr>
<tr>
<td>Property Type</td>
<td>Number</td>
</tr>
<tr>
<td>---------------</td>
<td>---------</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5974467</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6714517</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6654374</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6711125</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7046665</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6674760</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6781990</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7580350</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6970424</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7152124</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8072887</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8295188</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5999538</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5936962</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6295299</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7130308</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8161270</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7822032</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7463628</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7304996</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7821931</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7813348</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7606263</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7649879</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7889750</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7502374</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7646770</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8085779</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7554978</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7936687</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7522516</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7385984</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7822038</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7606249</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7889658</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7372813</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8499093</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8659993</td>
</tr>
<tr>
<td>Property Type</td>
<td>Number</td>
</tr>
<tr>
<td>---------------</td>
<td>--------</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7693158</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8724638</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7386309</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8707432</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8751649</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>D512697</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>D601551</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8751647</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8855124</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8842684</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8891533</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8771009</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8924694</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8767549</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>5365952</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>9008091</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>5922046</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6067563</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6249820</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7222268</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6301224</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6822966</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6317427</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6430194</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>5910690</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6008550</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6754171</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>5963719</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>5918040</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>5894517</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>5898694</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6650639</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6125466</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6067557</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6085215</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>5954835</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6425106</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6046982</td>
</tr>
<tr>
<td>Property Type</td>
<td>Number</td>
</tr>
<tr>
<td>---------------</td>
<td>----------</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5968128</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7152242</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8347375</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7581249</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5796966</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6081511</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6078949</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5781772</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6014659</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5920900</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6000008</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7386605</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7529243</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8040890</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7401086</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7690040</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8239960</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6041042</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5940376</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6151324</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6331983</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5956335</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6892309</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6990592</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5596575</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5838989</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8191107</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7580403</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7855972</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5751971</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5905723</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6510151</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6067300</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6147976</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5844902</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6567410</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8023521</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8819213</td>
</tr>
<tr>
<td>Property Type</td>
<td>Number</td>
</tr>
<tr>
<td>--------------</td>
<td>---------</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6198751</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6449279</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7720076</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8023515</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8462794</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5684800</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5825772</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5946308</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6147995</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5963556</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6128665</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6469987</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6526052</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6560236</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6122281</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5870386</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7450940</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7685295</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7945945</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7526541</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7739372</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7936770</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6711171</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7480917</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7756544</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8086232</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6014409</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6044121</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6061737</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5966546</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6685498</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7093072</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6072772</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6563837</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6865154</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5546377</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5668951</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5675742</td>
</tr>
<tr>
<td>Property Type</td>
<td>Number</td>
</tr>
<tr>
<td>---------------</td>
<td>---------</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5953342</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5745697</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5867480</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5956322</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5978357</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6047328</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6101170</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6112251</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5987522</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5553085</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6850490</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8166151</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7457297</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6466997</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6418480</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5999980</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5995995</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5970229</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5862206</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5822612</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5805808</td>
</tr>
<tr>
<td>Patent Number</td>
<td>5978385</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7411901</td>
</tr>
<tr>
<td>Patent Number</td>
<td>9116660</td>
</tr>
<tr>
<td>Patent Number</td>
<td>9130826</td>
</tr>
<tr>
<td>Patent Number</td>
<td>9143437</td>
</tr>
<tr>
<td>Patent Number</td>
<td>9154372</td>
</tr>
<tr>
<td>Patent Number</td>
<td>9166884</td>
</tr>
<tr>
<td>Patent Number</td>
<td>9172627</td>
</tr>
<tr>
<td>Patent Number</td>
<td>9189317</td>
</tr>
<tr>
<td>Patent Number</td>
<td>9230213</td>
</tr>
<tr>
<td>Patent Number</td>
<td>9252548</td>
</tr>
<tr>
<td>Patent Number</td>
<td>9256636</td>
</tr>
<tr>
<td>Patent Number</td>
<td>9385942</td>
</tr>
<tr>
<td>Patent Number</td>
<td>9391803</td>
</tr>
<tr>
<td>Patent Number</td>
<td>9407455</td>
</tr>
<tr>
<td>Patent Number</td>
<td>9455934</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6421731</td>
</tr>
<tr>
<td>Property Type</td>
<td>Number</td>
</tr>
<tr>
<td>--------------</td>
<td>----------</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7653033</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8687610</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6385442</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6259898</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6393261</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6600734</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7693101</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6442507</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6876951</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7096160</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6526506</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6453159</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6694430</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6317599</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7035642</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7155228</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6493679</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7596518</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6850946</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6721769</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7711687</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6499006</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7299168</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7570929</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7492248</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7126926</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7339905</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7386298</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8050240</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8391256</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8699473</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8498278</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8699474</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8027320</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7173922</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7173923</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6411608</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>6404772</td>
</tr>
<tr>
<td>Property Type</td>
<td>Number</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8660061</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8149796</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8189542</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6971063</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7246045</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7286971</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7085697</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7096173</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7171208</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7680644</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7933605</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6625454</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8290499</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7055107</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8503336</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6973622</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7030812</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7030811</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7069025</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7250906</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6735450</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7019753</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7574323</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7164883</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7260115</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7633974</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6985461</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7680085</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7126945</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7349356</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7961660</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7917610</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7383577</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7086089</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7042852</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7058796</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7277404</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7322044</td>
</tr>
<tr>
<td>Property Type</td>
<td>Number</td>
</tr>
<tr>
<td>---------------</td>
<td>----------</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7532895</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7526808</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7779476</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8060939</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7167717</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7068999</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7676218</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6735445</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8170611</td>
</tr>
<tr>
<td>Patent Number</td>
<td>6925094</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7162258</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7295960</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7295119</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7280520</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7492744</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7359676</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7324804</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7522908</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7424300</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7873368</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7376079</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7542770</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7668201</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7069024</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7127258</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7720445</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8417302</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7272414</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7355996</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7385476</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7639656</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7496070</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8321545</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8019352</td>
</tr>
<tr>
<td>Patent Number</td>
<td>D512052</td>
</tr>
<tr>
<td>Patent Number</td>
<td>D510343</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7349774</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7596388</td>
</tr>
<tr>
<td>Property Type</td>
<td>Number</td>
</tr>
<tr>
<td>---------------</td>
<td>------------</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7669230</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7515573</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7443809</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7424000</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7529203</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7499411</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7729326</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7822000</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7437127</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7593715</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7688782</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7621497</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7742456</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8204039</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7577424</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7961673</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7715800</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7903624</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7869346</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7971251</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7720464</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7813443</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7970013</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7804806</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7826869</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7961690</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7916682</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7639648</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7613150</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7826425</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8111676</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8281392</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7869438</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7760695</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7783300</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8205244</td>
</tr>
<tr>
<td>Patent Number</td>
<td>8134985</td>
</tr>
<tr>
<td>Patent Number</td>
<td>7912469</td>
</tr>
<tr>
<td>Property Type</td>
<td>Number</td>
</tr>
<tr>
<td>--------------</td>
<td>----------</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8320321</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7826862</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8300618</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7961725</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7885233</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8130656</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8027266</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8185121</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8134987</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7792110</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8249105</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7737573</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8223732</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8036161</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8225124</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8811295</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8027248</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7966010</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8139543</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8189547</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8588146</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8170050</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8612752</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8391169</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8184610</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8171539</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8281134</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8121102</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8033149</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8798034</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>9003205</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8694624</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8223657</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8451735</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8756690</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8826413</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8798000</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8392990</td>
</tr>
<tr>
<td>Property Type</td>
<td>Number</td>
</tr>
<tr>
<td>-------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8352604</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8549634</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8493977</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8923133</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8594064</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8553603</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8705967</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>9088837</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8811361</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8755274</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8516567</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8929803</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8867342</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8934867</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8842651</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>9198034</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>9065497</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>7885606</td>
</tr>
<tr>
<td>Patent Number:</td>
<td>8699392</td>
</tr>
<tr>
<td>Application Number:</td>
<td>11731082</td>
</tr>
<tr>
<td>Application Number:</td>
<td>14565343</td>
</tr>
<tr>
<td>Application Number:</td>
<td>14565338</td>
</tr>
<tr>
<td>Application Number:</td>
<td>14226805</td>
</tr>
<tr>
<td>Application Number:</td>
<td>13864091</td>
</tr>
<tr>
<td>Application Number:</td>
<td>12834336</td>
</tr>
<tr>
<td>Application Number:</td>
<td>13465576</td>
</tr>
<tr>
<td>Application Number:</td>
<td>13835679</td>
</tr>
<tr>
<td>Application Number:</td>
<td>13836048</td>
</tr>
<tr>
<td>Application Number:</td>
<td>14451851</td>
</tr>
<tr>
<td>Application Number:</td>
<td>10717838</td>
</tr>
<tr>
<td>Application Number:</td>
<td>14710533</td>
</tr>
<tr>
<td>Application Number:</td>
<td>14710534</td>
</tr>
<tr>
<td>Application Number:</td>
<td>14784020</td>
</tr>
<tr>
<td>Application Number:</td>
<td>14805362</td>
</tr>
<tr>
<td>Application Number:</td>
<td>14842508</td>
</tr>
<tr>
<td>Application Number:</td>
<td>14861838</td>
</tr>
<tr>
<td>Application Number:</td>
<td>14922481</td>
</tr>
<tr>
<td>Application Number:</td>
<td>14975094</td>
</tr>
<tr>
<td>Property Type</td>
<td>Number</td>
</tr>
<tr>
<td>---------------------</td>
<td>----------</td>
</tr>
<tr>
<td>Application Number:</td>
<td>15180931</td>
</tr>
<tr>
<td>Application Number:</td>
<td>15190922</td>
</tr>
<tr>
<td>Application Number:</td>
<td>15242633</td>
</tr>
<tr>
<td>Application Number:</td>
<td>13184142</td>
</tr>
<tr>
<td>Application Number:</td>
<td>14446381</td>
</tr>
<tr>
<td>Application Number:</td>
<td>14647273</td>
</tr>
<tr>
<td>Application Number:</td>
<td>14844151</td>
</tr>
<tr>
<td>Application Number:</td>
<td>14844064</td>
</tr>
<tr>
<td>Application Number:</td>
<td>14806738</td>
</tr>
<tr>
<td>Application Number:</td>
<td>14647176</td>
</tr>
<tr>
<td>Application Number:</td>
<td>15227258</td>
</tr>
<tr>
<td>Application Number:</td>
<td>15219461</td>
</tr>
</tbody>
</table>

**CORRESPONDENCE DATA**

Fax Number:

*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*

Email: TDinh@mofo.com

Correspondent Name: MORRISON & FOERSTER LLP

Address Line 1: 425 MARKET STREET

Address Line 4: SAN FRANCISCO, CALIFORNIA 94105

**ATTORNEY DOCKET NUMBER:** 27292-54

**NAME OF SUBMITTER:** TUAN DINH

**SIGNATURE:** /Tuan Dinh/

**DATE SIGNED:** 10/31/2016

**Total Attachments:** 54

source=TUNINGI Amended and Restated Borrower Patent and Trademark Security Agreement#page1.tif

source=TUNINGI Amended and Restated Borrower Patent and Trademark Security Agreement#page2.tif

source=TUNINGI Amended and Restated Borrower Patent and Trademark Security Agreement#page3.tif

source=TUNINGI Amended and Restated Borrower Patent and Trademark Security Agreement#page4.tif

source=TUNINGI Amended and Restated Borrower Patent and Trademark Security Agreement#page5.tif

source=TUNINGI Amended and Restated Borrower Patent and Trademark Security Agreement#page6.tif

source=TUNINGI Amended and Restated Borrower Patent and Trademark Security Agreement#page7.tif

source=TUNINGI Amended and Restated Borrower Patent and Trademark Security Agreement#page8.tif

source=TUNINGI Amended and Restated Borrower Patent and Trademark Security Agreement#page9.tif

source=TUNINGI Amended and Restated Borrower Patent and Trademark Security Agreement#page10.tif

source=TUNINGI Amended and Restated Borrower Patent and Trademark Security Agreement#page11.tif

source=TUNINGI Amended and Restated Borrower Patent and Trademark Security Agreement#page12.tif

source=TUNINGI Amended and Restated Borrower Patent and Trademark Security Agreement#page13.tif

source=TUNINGI Amended and Restated Borrower Patent and Trademark Security Agreement#page14.tif

source=TUNINGI Amended and Restated Borrower Patent and Trademark Security Agreement#page15.tif

source=TUNINGI Amended and Restated Borrower Patent and Trademark Security Agreement#page16.tif
EXECUTION VERSION

AMENDED AND RESTATED PATENT AND TRADEMARK SECURITY AGREEMENT

THIS AMENDED AND RESTATED PATENT AND TRADEMARK SECURITY AGREEMENT (this “Agreement”), dated as of July 24, 2015, and amended and restated as of October 28, 2016 is made between EXTREME NETWORKS, INC., a Delaware corporation (the “Grantor”), and SILICON VALLEY BANK, a California corporation, as administrative agent for the Lenders referred to below and for the benefit of the Secured Parties defined in the Amended and Restated Credit Agreement referred to below (in such capacity, the “Administrative Agent”).

A. The Grantor, certain financial institutions as lenders (the “Lenders”) and the Administrative Agent are parties to that certain Credit Agreement, dated as of March 20, 2014 (as (a) amended by that certain amendment letter agreement dated as of March 20, 2014, (b) further amended by that certain Second Amendment Agreement dated as of November 18, 2014, (c) further amended by that certain Third Amendment to Credit Agreement and First Amendment to Guarantee and Collateral Agreement dated as of June 26, 2015, (d) further amended, modified, renewed or extended from time to time prior to the date hereof, the “Existing Credit Agreement”) and (e) amended and restated as of the date hereof pursuant to the Amended and Restated Credit Agreement (as further amended, modified, renewed or extended from time to time after the date hereof, the “Amended and Restated Credit Agreement”).

B. The Grantor, Enterasys Networks, Inc., a Delaware corporation, and the Administrative Agent are parties to that certain Guarantee and Collateral Agreement, dated as of March 20, 2014 (as (a) amended by that certain Third Amendment to Credit Agreement and First Amendment to Guarantee and Collateral Agreement dated as of June 26, 2015 and (b) further amended, modified, renewed or extended from time to time after the date hereof, the “Guarantee and Collateral Agreement”).

C. Pursuant to the terms of the Guarantee and Collateral Agreement, the Grantor granted to the Administrative Agent (for the benefit of the Secured Parties and to secure the Secured Obligations (as defined in the Guarantee and Collateral Agreement)) a security interest in substantially all of the Grantor’s present and future personal property assets (including the Intellectual Property of the Grantor) and, to further evidence such security interest grant in the Intellectual Property of the Grantor, the Grantor and the Administrative Agent entered into that certain Borrower Patent and Trademark Security Agreement dated June 24, 2015 (the “Existing Borrower Patent and Trademark Security Agreement”).

D. The Grantor has requested that the Administrative Agent and the Lenders agree to amend and restate the Existing Borrower Patent and Trademark Security Agreement in the form of this Agreement and the Administrative Agent and the Lenders have agreed to such request, subject to the terms and conditions hereof.

Accordingly, the parties hereto agree as follows:

SECTION 1 Definitions; Interpretation.

(a) Terms Defined in Amended and Restated Credit Agreement and the Guarantee and Collateral Agreement. All capitalized terms used in this Agreement (including in the recitals hereof) and not otherwise defined herein shall have the respective meanings assigned to such terms in the Amended and Restated Credit Agreement or the Guarantee and Collateral Agreement, as the context may require.
(b) **Interpretation.** The rules of interpretation set forth in Section 1.2 of the Amended and Restated Credit Agreement shall be applicable to this Agreement and are incorporated herein by this reference.

SECTION 2 Security Interest.

(a) **Grant of Security Interest.** As security for the payment and performance of the Secured Obligations, the Grantor hereby grants, assigns, and conveys to the Administrative Agent (for the benefit of the Secured Parties), a security interest in all of the Grantor’s right, title and interest in, to and under the following property, in each case whether now or hereafter existing or arising or in which the Grantor now has or hereafter owns, acquires or develops an interest and wherever located (collectively, the “Collateral”):

(i) all patents and patent applications, domestic or foreign, all licenses relating to any of the foregoing and all income and royalties with respect to any licenses (including such patents and patent applications as described in Schedule A), all rights to sue for past, present or future infringement thereof, all rights arising therefrom and pertaining thereto and all reissues, divisions, continuations, renewals, extensions and continuations-in-part thereof; provided that the Collateral shall not include any such patent that constitutes an Excluded Patent (as defined in the Guarantee and Collateral Agreement);

(ii) all state (including common law), federal and foreign trademarks, service marks and trade names, and applications for registration of such trademarks, service marks and trade names, all licenses relating to any of the foregoing and all income and royalties with respect to any licenses (including such marks, names and applications as described in Schedule B), whether registered or unregistered and wherever registered, all rights to sue for past, present or future infringement or unconsented use thereof, all rights arising therefrom and pertaining thereto and all reissues, extensions and renewals thereof;

(iii) the entire goodwill of or associated with the businesses now or hereafter conducted by the Grantor connected with and symbolized by any of the aforementioned properties and assets;

(iv) all Commercial Tort Claims associated with or arising out of any of the aforementioned properties and assets;

(v) all accounts, all intangible intellectual or other similar property and other general intangibles associated with or arising out of any of the aforementioned properties and assets and not otherwise described above, including all license payments and payments under insurance (whether or not the Administrative Agent is the loss payee thereof) or any indemnity, warranty or guaranty payable by reason of loss or damage to or otherwise with respect to the foregoing Collateral; and

(vi) all products, proceeds and supporting obligations of or with respect to any and all of the foregoing Collateral.

(b) **Continuing Security Interest.** The Grantor agrees that this Agreement shall create a continuing security interest in the Collateral which shall remain in effect until terminated in accordance with the Guarantee and Collateral Agreement.

SECTION 3 Supplement to Guarantee and Collateral Agreement. The terms and provisions of this Agreement are intended as a supplement to the terms and provisions of the Guarantee and Collateral Agreement. The rights and remedies of the Administrative Agent with respect to the security interests
granted herein are without prejudice to, and are in addition to those set forth in the Guarantee and Collateral Agreement, all terms and provisions of which are incorporated herein by reference.

SECTION 4 Authorization to Supplement. If the Grantor shall obtain rights to any new trademarks, any new patentable inventions or become entitled to the benefit of any patent application or patent for any reissue, division, or continuation, of any patent, the provisions of this Agreement shall automatically apply thereto. To the extent required by the terms and provisions of the Guarantee and Collateral Agreement, the Grantor shall give prompt notice in writing to the Administrative Agent with respect to any such new trademarks or patents, or renewal or extension of any trademark registration. Without limiting the Grantor’s obligation under this Section 4, the Grantor authorizes the Administrative Agent to modify this Agreement by amending Schedule A or Schedule B, as applicable, to include any such new patent or trademark rights. No failure to so amend Schedule A or Schedule B, as applicable, shall in any way affect, invalidate or detract from the Administrative Agent’s continuing security interest in all Collateral (held for the benefit of the Secured Parties), whether or not listed on Schedule A or Schedule B.

SECTION 5 Further Acts. On a continuing basis, the Grantor shall make, execute, acknowledge and deliver, and file and record in the proper filing and recording places, all such instruments and documents, and take all such action as may be necessary or advisable or as may be requested by the Administrative Agent to carry out the intent and purposes of this Agreement, or for assuring, confirming or protecting the grant or perfection of the security interest granted or purported to be granted hereby, to ensure the Grantor’s compliance with this Agreement or to enable the Administrative Agent to exercise and enforce its rights and remedies hereunder with respect to the Collateral, including any documents for filing with the USPTO and/or any applicable state office. The Administrative Agent may record this Agreement, an abstract thereof, or any other document describing the Administrative Agent’s interest in the Collateral with the USPTO, including any modification hereof as provided above, at the expense of the Grantor.

SECTION 6 Binding Effect. This Agreement shall be binding upon, inure to the benefit of and be enforceable by the Grantor, the Administrative Agent, the other Secured Parties and their respective successors and assigns and shall bind any Person who becomes bound as a debtor to this Agreement.

SECTION 7 Governing Law. THIS AGREEMENT AND THE RIGHTS AND OBLIGATIONS OF THE PARTIES UNDER THIS AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED AND INTERPRETED IN ACCORDANCE WITH, THE LAW OF THE STATE OF CALIFORNIA. This Agreement is subject to the provisions of Section 10.14 of the Amended and Restated Credit Agreement relating to submission to jurisdiction, jury trial waiver and judicial reference, which provisions are by this reference incorporated herein, mutatis mutandis, as if set forth herein in full.

SECTION 8 Entire Agreement; Amendment. This Agreement contains the entire agreement of the parties with respect to the subject matter hereof and shall not be amended except by the written agreement of the parties as provided in Section 10.1 of the Amended and Restated Credit Agreement.

SECTION 9 Severability. Whenever possible, each provision of this Agreement shall be interpreted in such manner as to be effective and valid under all applicable laws and regulations. If, however, any provision of this Agreement shall be prohibited by or invalid under any such law or regulation in any jurisdiction, it shall, as to such jurisdiction, be deemed modified to conform to the minimum requirements of such law or regulation, or, if for any reason it is not deemed so modified, it shall be ineffective and invalid only to the extent of such prohibition or invalidity without affecting the
remaining provisions of this Agreement, or the validity or effectiveness of such provision in any other jurisdiction.

SECTION 10 Counterparts. This Agreement may be executed in any number of counterparts and by different parties hereto in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute but one and the same agreement. Delivery of an executed counterpart of a signature page of this Agreement by facsimile or in electronic (i.e., “pdf” or “tif”) format shall be effective as delivery of a manually executed counterpart of this Agreement.

SECTION 11 Amendment and Restatement. This Agreement is intended to amend, restate and supersede the Existing Borrower Patent and Trademark Security Agreement, without novation. The Grantor hereby ratifies, affirms and acknowledges all of its Secured Obligations in respect of the Existing Borrower Patent and Trademark Security Agreement, as amended and restated hereby, and the related documents and agreements delivered by it hereunder. All references in the other Loan Documents to the Existing Borrower Patent and Trademark Security Agreement shall mean and be references to this Agreement (unless the context requires otherwise). The Grantor hereby acknowledges that neither the execution nor the delivery by the Administrative Agent of this Agreement shall (i) be deemed to create a course of dealing or otherwise obligate the Administrative Agent or any Lender to amend or amend and restate this agreement under the same or similar circumstances in the future or (ii) be deemed to create any implied waiver of any right or remedy of the Administrative Agent with respect to any term or provision of any Loan Document (including any term or provision relating to the occurrence of a Material Adverse Effect).

[Remainder of page intentionally left blank]
IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement, as of the date first above written.

GRANTOR:

EXTREME NETWORKS, INC.

By: K. Motiey

Name: Katayoun Motiey

Title: EVP, Chief Administrative Officer & Corporate Secretary

ADMINISTRATIVE AGENT:

SILICON VALLEY BANK

By: ________________

Name: __________________

Title: __________________
IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement, as of the date first above written.

GRANTOR:

EXTREME NETWORKS, INC.

By:______________________________

Name:____________________________

Title:____________________________

ADMINISTRATIVE AGENT:

SILICON VALLEY BANK

By:______________________________

Name:____________________________

Title:____________________________
<table>
<thead>
<tr>
<th>Title</th>
<th>Inventor/Assignee</th>
<th>Issue Date</th>
<th>Patent No.</th>
<th>Filing Date</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schedule A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td>Patent No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>----------------</td>
<td>------------</td>
<td>------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGINEERED LINK AGGREGATION GROUP</td>
<td>KRISPHAN RANA</td>
<td>22-Mar-11</td>
<td>5,971,730</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRAFFIC FORWARDING IN A TRAFFIC SERVICE IN A NETWORK SWITCH</td>
<td></td>
<td>22-Nov-07</td>
<td>5,971,730</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PACKETS TO AN INSTRUCTION PREVENTION METHOD AND SYSTEM FOR DETECTING OF</td>
<td></td>
<td>22-Dec-13</td>
<td>6,017,786</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KASVLAKHAR RAHUL S</td>
<td></td>
<td>22-Dec-13</td>
<td>6,017,786</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NETWORK THREAT DETECTION AND</td>
<td>ELROD CRAIG T.</td>
<td>28-Aug-08</td>
<td>6,235,964</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NETWORK THREAT DETECTION AND</td>
<td></td>
<td>28-Aug-08</td>
<td>6,235,964</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PREVENTING ACCESS INTRUSION IN A NETWORK</td>
<td>RAITHA MANISH M</td>
<td>10-Dec-01</td>
<td>6,283,732</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHODOLOGY AND SYSTEM FOR DETECTING AND</td>
<td></td>
<td>10-Dec-01</td>
<td>6,283,732</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FUNCTIONALITY</td>
<td>PARKER DAVID K</td>
<td>22-Feb-11</td>
<td>7,894,435</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHODOLOGY OF PROVIDING VIRTUAL ROUTER</td>
<td></td>
<td>22-Feb-11</td>
<td>7,894,435</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STATUS MONITORING</td>
<td>PARKER DAVID K</td>
<td>26-Mar-09</td>
<td>7,359,730</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UPGRADE MANAGEMENT MODULE FAILOVER AND</td>
<td>DAVAL RANA</td>
<td>27-Jan-09</td>
<td>7,483,370</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHODS AND SYSTEMS FOR HILLES SWITCHE</td>
<td></td>
<td>27-Jan-09</td>
<td>7,483,370</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ETHERTONE AUTOMATION PROTECTION</td>
<td>SHAH SUNIL P</td>
<td>20-Dec-09</td>
<td>7,606,240</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ETHERTONE AUTOMATION PROTECTION</td>
<td></td>
<td>20-Dec-09</td>
<td>7,606,240</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHODS AND SYSTEMS FOR MITTLEA RESTAINT P</td>
<td>FRICK JOHN KEVIN</td>
<td>22-Feb-08</td>
<td>7,362,008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ETHERTONE AUTOMATION PROTECTION</td>
<td></td>
<td>22-Feb-08</td>
<td>7,362,008</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PROTOCOL L2 SERVICES PROTOCOL SWITCING ACCESS TO VIRTUAL</td>
<td>STOKES OLENE L</td>
<td>5- Apr-14</td>
<td>8,797,849</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REDUNDANT ETHERTONE AUTOMATION</td>
<td></td>
<td>5- Apr-14</td>
<td>8,797,849</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td>Patent No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issued Date</td>
<td>Patent No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>----------</td>
<td>-------------</td>
<td>------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BACKPLANE FOR MULTICAST PACKETS QUALITY OF SERVICE ACROSS A SWITCHED NETWORK AND APPARATUS FOR PROVIDING</td>
<td>Gupta, Rahul</td>
<td>23-Oct-07</td>
<td>7286552</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>QUEUE MANAGER BETWEEN EGRESS AND INGRESS BACKPLANE FOR SERVICE ACROSS A SWITCHED NETWORK AND APPARATUS FOR PROVIDING</td>
<td>Gupta, Rahul</td>
<td>6-Oct-09</td>
<td>7599272</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>MANAGER BETWEEN EGRESS QUEUE BACKPLANE FOR SERVICE ACROSS A SWITCHED NETWORK AND APPARATUS FOR PROVIDING</td>
<td>Gupta, Rahul</td>
<td>5-Apr-08</td>
<td>7408876</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>NETWORK PERFORMANCE IN PACKETS-SWITCHED NETWORKS AND APPARATUS FOR MEASURING NETWORKS BASED QUALITY OF SERVICE</td>
<td>Ewan Walbran</td>
<td>11-Nov-03</td>
<td>6647413</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>POLICY BASED QUALITY OF SERVICE</td>
<td>Hadlock Stephen R</td>
<td>22-Feb-05</td>
<td>6859438</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>POLICY BASED QUALITY OF SERVICE</td>
<td>Hadlock Stephen R</td>
<td>15-Aug-00</td>
<td>6104700</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>INTEGRATED NETWORK POLICY ENFORCEMENT</td>
<td>Schneider Herb</td>
<td>11-Jun-13</td>
<td>8464312</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>CHARACTERISTIC COMMUNICATIONS CABLE BASED ON A CABLE TO A DEVICE POWERED OVER A NETWORK PRODUCT FOR MANAGING POWER ALLOCATION PROGRAM METHODS, SYSTEMS, AND COMPUTED PROGRAMS FOR NETWORK LOGON AUTHENTICATION FOR NETWORK LOGON</td>
<td>Gere David S</td>
<td>22-Apr-08</td>
<td>7406503</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>METHOD AND SYSTEM FOR AUTOMATIC DISCOVERY OF APPARATUS METHOD AND SYSTEM FOR IMPROVING NETWORK SECURITY</td>
<td>Bhati Manish</td>
<td>28-Jul-09</td>
<td>7568190</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>METHOD AND SYSTEM FOR MULTICAST TRAFFIC</td>
<td>Shaheen Shazad I</td>
<td>18-Aug-09</td>
<td>7577999</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>REDUCTION METHOD AND SYSTEM FOR MULTICAST TRAFFIC</td>
<td>Rangan Ashish</td>
<td>21-Dec-10</td>
<td>7856910</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>ENCAPSULATE FLows ACROSS MULTIPLE PHY MULTIL-PROTOCOL LABEL SWITCHING PROTOCOL LOAD-SHARING TECHNIQUE FOR DISTRIBUTING</td>
<td>Alexander Cedil</td>
<td>12-Dec-06</td>
<td>7149217</td>
<td>USA</td>
<td></td>
</tr>
</tbody>
</table>

Schedule A
<table>
<thead>
<tr>
<th>Title</th>
<th>Inventor</th>
<th>Issue Date</th>
<th>Patent No.</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Functioning in a Packet</td>
<td>Burton III Charles F</td>
<td>13-May-97</td>
<td>5,043,735</td>
<td>USA</td>
</tr>
<tr>
<td>Functioning in a Packet</td>
<td>Burton III Charles F</td>
<td>10-May-94</td>
<td>5,310,993</td>
<td>USA</td>
</tr>
<tr>
<td>Method for Optimizing a Route</td>
<td>Krishnan Rama</td>
<td>11-May-95</td>
<td>5,693,676</td>
<td>USA</td>
</tr>
<tr>
<td>Method for Forming a Packet</td>
<td>Grossoff Donald B</td>
<td>10-Nov-97</td>
<td>5,784,927</td>
<td>USA</td>
</tr>
<tr>
<td>Method and Apparatus for Managing Routes</td>
<td>Guan Tiao</td>
<td>14-Nov-97</td>
<td>5,745,694</td>
<td>USA</td>
</tr>
<tr>
<td>Method for Forming an SDP Route</td>
<td>Vip Michael</td>
<td>09-Aug-95</td>
<td>5,528,132</td>
<td>USA</td>
</tr>
<tr>
<td>Method and Apparatus for Selecting Routes</td>
<td>Vip Michael</td>
<td>05-Dec-05</td>
<td>6,959,436</td>
<td>USA</td>
</tr>
<tr>
<td>Method for Forming an SDP Route</td>
<td>Swenson Erik</td>
<td>10-May-89</td>
<td>5,119,687</td>
<td>USA</td>
</tr>
<tr>
<td>Method for Forming an SDP Route</td>
<td>Siva Meera</td>
<td>09-Nov-97</td>
<td>5,619,971</td>
<td>USA</td>
</tr>
<tr>
<td>Rate Color Marker</td>
<td>Haddock Stephen</td>
<td>05-Nov-05</td>
<td>6,970,426</td>
<td>USA</td>
</tr>
<tr>
<td>Rate Color Marker</td>
<td>Gupta PRAKASHI</td>
<td>12-Sep-01</td>
<td>8,274,747</td>
<td>USA</td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td>Patent No.</td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-------------------</td>
<td>------------</td>
<td>------------</td>
<td></td>
</tr>
<tr>
<td>MARKING SYSTEM AND METHOD FOR EGRESS PACKET</td>
<td>Nguyen Kha H</td>
<td>3-Nov-09</td>
<td>7613290</td>
<td></td>
</tr>
<tr>
<td>AND METHOD FOR PACKET PROCESSING SYSTEM ARCHITECTURE</td>
<td>Parker David K</td>
<td>9-Mar-10</td>
<td>7679215</td>
<td></td>
</tr>
<tr>
<td>CONNECTIONS INTERCONNECTED BY BACKPLANE CLASSIFICATION SYSTEM FOR AND METHOD OF COMMUNICATING WITH A NETWORK AND APPARATUS FOR A CONTROL DEVICE</td>
<td>Svensson Erikk R</td>
<td>25-Aug-09</td>
<td>7580949</td>
<td></td>
</tr>
<tr>
<td>SWITCH DEVICE</td>
<td>N.A. JING</td>
<td>12-Jan-10</td>
<td>7646731</td>
<td></td>
</tr>
<tr>
<td>TABLE UPDATE METHOD AND APPARATUS FOR FAST ROUTE</td>
<td>Guan TAO</td>
<td>8-Feb-08</td>
<td>7334348</td>
<td></td>
</tr>
<tr>
<td>FORWARDING DEVICE METHOD AND APPARATUS FOR A CONTROL NETWORK DEVICE</td>
<td>T.P. Michael</td>
<td>11-Jul-07</td>
<td>7245629</td>
<td></td>
</tr>
<tr>
<td>NETWORK ELEMENT EXPANDING HOST ROUTING SETTINGS ON A MEDIUM END NODE</td>
<td>Timothy Barzil</td>
<td>8-Nov-11</td>
<td>8053800</td>
<td></td>
</tr>
<tr>
<td>NETWORK ELEMENT EXPANDING HOST ROUTING SETTINGS ON A MEDIUM END NODE</td>
<td>Tanigala Ravi</td>
<td>13-Dec-09</td>
<td>7602722</td>
<td></td>
</tr>
<tr>
<td>LINK AGGREGATION METHOD AND SYSTEMS FOR NEXT HOP SCALING WITH MANAGEABLE MEDIA AND COMPUTER</td>
<td>Grosser Donald B</td>
<td>10-Dec-13</td>
<td>8609726</td>
<td></td>
</tr>
<tr>
<td>READABLE MEDIA FOR NEXT HOP SCALING WITH MANAGEABLE MEDIA AND COMPUTER</td>
<td>Grosser Donald B</td>
<td>25-Feb-14</td>
<td>8896011</td>
<td></td>
</tr>
<tr>
<td>SWITCHING MODES ON NETWORK USING INTERNET PROTOCOL</td>
<td>Grosser Donald B</td>
<td>11-Dec-12</td>
<td>8331373</td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td>Patent No.</td>
<td>Country</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>----------------</td>
<td>--------------</td>
<td>--------------</td>
<td>---------</td>
</tr>
<tr>
<td>BLOCKING USING LAYER 2 SOURCE ADDRESS PROTOCOLS FOR SELECTIVE LAYER 2 PORT HOLEHOLES, SYSTEMS, AND COMPUTER PROGRAMS</td>
<td>CROSSER DONALD B</td>
<td>22-Apr-14</td>
<td>8705352</td>
<td>USA</td>
</tr>
<tr>
<td>SOFTWARE CONTROL PLANE FOR SWITCHES</td>
<td>FRED J KEVIN</td>
<td>16-Aug-11</td>
<td>8000344</td>
<td>USA</td>
</tr>
<tr>
<td>OPTIMAL READING OF FORWARDING DATABASE</td>
<td>DENNISON LARRY R</td>
<td>14-May-13</td>
<td>8442300</td>
<td>USA</td>
</tr>
<tr>
<td>LEARNING SUPPORT FOR FORWARDING DATABASE WITH HARDWARE</td>
<td>KIRSHNAN RANJ</td>
<td>17-Apr-12</td>
<td>8160974</td>
<td>USA</td>
</tr>
<tr>
<td>CUSTOMER ISOLATION USING A COMMON TRUNK</td>
<td>KIRSHNAN RANJ</td>
<td>5-Feb-15</td>
<td>8369344</td>
<td>USA</td>
</tr>
<tr>
<td>DEVICE AND METHOD, APPARATUS, AND SYSTEM FOR A BLOCKABLE ETHERNET SWITCH</td>
<td>CHABERI GHAD</td>
<td>26-Jun-12</td>
<td>8208418</td>
<td>USA</td>
</tr>
<tr>
<td>STACKABLE SWITCHES AND METHOD FOR NON-BLOCKABLE ETHERNET SWITCHES</td>
<td>CHABERI GHAD</td>
<td>19-Jul-11</td>
<td>7983192</td>
<td>USA</td>
</tr>
<tr>
<td>BLOCKING DEVICE FOR NON-BLOCKING ETHERNET SWITCHESE</td>
<td>CHABERI GHAD</td>
<td>19-Jun-12</td>
<td>8204070</td>
<td>USA</td>
</tr>
<tr>
<td>METHOD AND SYSTEM FOR COMPRESSING ROUTE ENTRIES IN A ROUTE TABLE BASED ON EQUAL COST MULTI-PATHS (ECMP) MATCHES</td>
<td>KUMAR DILIP</td>
<td>8-Nov-11</td>
<td>7903366</td>
<td>USA</td>
</tr>
<tr>
<td>FORWARDING DATABASE EXPANSION AND CONFIRMATION OF IP HOST METHOD AND SYSTEM FOR AUTOMATIC NETWORK SWITCH FUNCTION</td>
<td>ROYER EDWARD J</td>
<td>15-Nov-11</td>
<td>8059658</td>
<td>USA</td>
</tr>
<tr>
<td>INTEGRATED METHODS OF OPERATING NETWORK SWITCH FUNCTION</td>
<td>KASHYAP PRakash</td>
<td>20-Jan-10</td>
<td>7860006</td>
<td>USA</td>
</tr>
<tr>
<td>RULE STRUCTURE FOR OPERATING NETWORK</td>
<td>KASHYAP PRakash</td>
<td>23-Feb-10</td>
<td>7669896</td>
<td>USA</td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>----------</td>
<td>------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schedule A (VLAN TAGS, TRANSLATING VIRTUAL LOCAL AREA NETWORK METHODS AND SYSTEMS FOR ASSOCIATING AND VIRTUAL ROUTERS)</td>
<td>Grosz et al.</td>
<td>7358273 7-10-09</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Method for 2 Dimensional Location &amp; Routing</td>
<td>Park et al.</td>
<td>7822303 2-10-10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Method for Providing Virtual Router Functionality through Abstracted Services and System for Maintaining a Virtual Area Network Spanning Tree in a Virtual Local Area</td>
<td>Park et al.</td>
<td>7817634 10-10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Self-Configuring Network</td>
<td>Yang, X.</td>
<td>7657199 2-13-13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Topology Change Network Convergence in Response to a Ring Topology Discovery</td>
<td>Ku, Z.</td>
<td>8756874 12-13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ring Topology Discovery</td>
<td>Liu, Z.</td>
<td>772338 10-10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Detection and Recovery System and Method for Network Loop</td>
<td>Senavari, H.</td>
<td>7672228 2-13-13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ring Topology Domains</td>
<td>Black, J.</td>
<td>7329135 12-13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Method and System for Virtual Local Area Network</td>
<td>Merchant, S.</td>
<td>7145861 12-13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resolving Protocols</td>
<td>Yang, X.</td>
<td>7123923 12-13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Issue Date</td>
<td>Inventor</td>
<td>Title</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Issue Date</td>
<td>Inventor</td>
<td>Title</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Issue Date</td>
<td>Inventor</td>
<td>Title</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Issue Date</td>
<td>Inventor</td>
<td>Title</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Issue Date</td>
<td>Inventor</td>
<td>Title</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Issue Date</td>
<td>Inventor</td>
<td>Title</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Issue Date</td>
<td>Inventor</td>
<td>Title</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td>Patent No.</td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>-------------------</td>
<td>------------</td>
<td>------------</td>
<td></td>
</tr>
<tr>
<td>FLEXIBLE FLOW-AVOIDING MECHANISM</td>
<td>KASRAKARI RAKHIL</td>
<td>7817545</td>
<td>84-3917350</td>
<td></td>
</tr>
<tr>
<td>BUFFER OF NETWORK OF SERVICES AND CLIENTS USING FIFO</td>
<td>CARBIE SUSA E</td>
<td>6766840</td>
<td>84-3917350</td>
<td></td>
</tr>
<tr>
<td>APPLICATION OF PERISTENCE POLICIES ON RESOURCES TO RESOURCES REQUESTS BASED ON METHOD OF AND SYSTEM FOR ALLOCATING</td>
<td>SINGH AYUA RATTNDEK</td>
<td>8596093</td>
<td>84-3917350</td>
<td></td>
</tr>
<tr>
<td>APPLICATION OF PERISTENCE POLICIES ON RESOURCES TO RESOURCES REQUESTS BASED ON METHOD OF AND SYSTEM FOR ALLOCATING</td>
<td>SINGH AYUA RATTNDEK</td>
<td>7298746</td>
<td>84-3917350</td>
<td></td>
</tr>
<tr>
<td>APPLICATION OF PERISTENCE POLICIES ON RESOURCES TO RESOURCES REQUESTS BASED ON METHOD OF AND SYSTEM FOR ALLOCATING</td>
<td>SINGH AYUA RATTNDEK</td>
<td>8412283</td>
<td>84-3917350</td>
<td></td>
</tr>
<tr>
<td>APPLICATION OF PERISTENCE POLICIES ON RESOURCES TO RESOURCES REQUESTS BASED ON METHOD OF AND SYSTEM FOR ALLOCATING</td>
<td>SINGH AYUA RATTNDEK</td>
<td>7814244</td>
<td>84-3917350</td>
<td></td>
</tr>
<tr>
<td>APPLICATION OF PERISTENCE POLICIES ON RESOURCES TO RESOURCES REQUESTS BASED ON METHOD OF AND SYSTEM FOR ALLOCATING</td>
<td>SINGH AYUA RATTNDEK</td>
<td>7584262</td>
<td>84-3917350</td>
<td></td>
</tr>
<tr>
<td>APPLICATION OF PERISTENCE POLICIES ON RESOURCES TO RESOURCES REQUESTS BASED ON METHOD OF AND SYSTEM FOR ALLOCATING</td>
<td>SINGH AYUA RATTNDEK</td>
<td>7447777</td>
<td>84-3917350</td>
<td></td>
</tr>
<tr>
<td>PROGRAM</td>
<td>LI ZI HONG</td>
<td>7448045</td>
<td>84-3917350</td>
<td></td>
</tr>
<tr>
<td>RESOURCES TO RESOURCES REQUESTS</td>
<td>ZHANG HUI</td>
<td>7321226</td>
<td>84-3917350</td>
<td></td>
</tr>
<tr>
<td>ASSEMBLY</td>
<td>RAY B.</td>
<td>6597834</td>
<td>84-3917350</td>
<td></td>
</tr>
<tr>
<td>METHOD ADAPTABLE NETWORK ARCHITECTURE</td>
<td>MEKHANG SHEHZAD L</td>
<td>7310664</td>
<td>84-3917350</td>
<td></td>
</tr>
<tr>
<td>SENSOR</td>
<td>YANG LAIES</td>
<td>7499579</td>
<td>84-3917350</td>
<td></td>
</tr>
<tr>
<td>WIRELESS NETWORK ACCESS POINT AND</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td>Patent No.</td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------------</td>
<td>------------------</td>
<td>------------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>Method of Performing Table Lookup with Table Index that Exceeds</td>
<td>Krishnan Ram</td>
<td>27-Jun-09</td>
<td>752272</td>
<td></td>
</tr>
<tr>
<td>Protocol Identification (pdp II) Look-up Table (LUT) For Point-To-Point</td>
<td>Daniele Cimino</td>
<td>17-May-04</td>
<td>749422</td>
<td></td>
</tr>
<tr>
<td>Protocol Identification (pdp II) Look-up Table (LUT) For Point-To-Point</td>
<td>Daniele Cimino</td>
<td>15-Jul-08</td>
<td>740404</td>
<td></td>
</tr>
<tr>
<td>BALANCING METHOD AND APPARATUS FOR SERVER LOAD</td>
<td>Michael Irp</td>
<td>27-Dec-05</td>
<td>6980530</td>
<td></td>
</tr>
<tr>
<td>GAINING GAINING PROPAGATING THERAWS FROM PPP RC AND</td>
<td>Craig J. Field</td>
<td>14-Sep-12</td>
<td>1116675</td>
<td></td>
</tr>
<tr>
<td>EXTENDED BURST ENHANCEMENTS HIGH SPEED BUS WITH FLOW CONTROL AND</td>
<td>Erik Swenson</td>
<td>25-May-10</td>
<td>7729669</td>
<td></td>
</tr>
<tr>
<td>EXTENDED BURST ENHANCEMENTS HIGH SPEED BUS WITH FLOW CONTROL AND</td>
<td>Erik Swenson</td>
<td>18-Sep-07</td>
<td>7272672</td>
<td></td>
</tr>
<tr>
<td>SWITCHING FOR DISTRIBUTED ROUTERS FULTY TO Controller AUTOMATIC PROTECTION</td>
<td>Celia A.</td>
<td>25-Oct-05</td>
<td>9189657</td>
<td></td>
</tr>
<tr>
<td>Memory Array Error Correction</td>
<td>Erik Swenson</td>
<td>11-Jun-13</td>
<td>8446093</td>
<td></td>
</tr>
<tr>
<td>DETECTION ENHANCEMENTS AND BUFFER UNDERFLOW/OVERFLOW HIGH SPEED BUS WITH ALIGNMENT ERROR-TIMING</td>
<td>Erik Swenson</td>
<td>9-Jun-06</td>
<td>7546148</td>
<td></td>
</tr>
<tr>
<td>DETECTION ENHANCEMENTS AND BUFFER UNDERFLOW/OVERFLOW HIGH SPEED BUS WITH ALIGNMENT ERROR-TIMING</td>
<td>Erik Swenson</td>
<td>29-Apr-08</td>
<td>7366935</td>
<td></td>
</tr>
<tr>
<td>CIRCUIT BOARDS METHOD OF SELECTING AND PLACING BYPASS CAPTURATIONS ON MULTI-LAYER PRINTED LAYER</td>
<td>Clark Wiltie</td>
<td>16-May-06</td>
<td>743715</td>
<td></td>
</tr>
<tr>
<td>SOURCE SYNCHRONOUS DATA INTERFACE AND METHOD FOR A LAW SWITCH</td>
<td>Nicholas B. Haddock</td>
<td>27-Feb-07</td>
<td>7182126</td>
<td></td>
</tr>
<tr>
<td>SUICED COMPAREN ENGINE ARCHITECTURE</td>
<td></td>
<td>07-Mar-00</td>
<td>603497</td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>---------</td>
<td>------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Schedule A**

<table>
<thead>
<tr>
<th>Issue Date</th>
<th>Title</th>
<th>Inventor</th>
</tr>
</thead>
<tbody>
<tr>
<td>6714317</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5974476</td>
<td></td>
<td></td>
</tr>
<tr>
<td>592471</td>
<td></td>
<td></td>
</tr>
<tr>
<td>783344</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7735070</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6907466</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7145020</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6963311</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7119820</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7349228</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8193983</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7908431</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PATENT: 040521 FRAME: 0795**

**REEL:**

**Image:**

[Image of the table as described]
<table>
<thead>
<tr>
<th>Title</th>
<th>Inventor</th>
<th>Issue Date</th>
<th>Patent No.</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSMA/CD LAN: CONTROLLING DATA TRANSMISSION IN A CSMA/CD LAN METHOD AND APPARATUS FOR PREDICTING AND ARBITRATING DATA TRANSMISSION IN A CSMA/CD LAN</td>
<td>Hadoop, S.</td>
<td>7-Dec-99</td>
<td>5,999,358</td>
<td>USA</td>
</tr>
<tr>
<td>VERSUS SECURITY</td>
<td>Hadoop, S.</td>
<td>2-Nov-99</td>
<td>5,978,383</td>
<td>USA</td>
</tr>
<tr>
<td>METHOD FOR ACCESSING A NETWORK UTILIZING THE CSMA/CD REPEATER, PROVIDING FOR DETERMINING THE SECURITY OF PACKETS IN AN AGGREGATED QUEUE</td>
<td>Siva Meera</td>
<td>6-Dec-11</td>
<td>8,072,887</td>
<td>USA</td>
</tr>
<tr>
<td>SWITCH DATA IN A MULTIPLE-PROCESSOR PACKET TRANSPORT CONSISTENCY OF RESOURCES AND METHOD AND SYSTEM FOR MAINTAINING NETWORK CONSISTENCY IN A PACKET SWITCHED NETWORK METHOD AND APPARATUS TO MINIMIZE SECURITY INDICATION</td>
<td>Pril Rahoul</td>
<td>19-Dec-06</td>
<td>7,152,124</td>
<td>USA</td>
</tr>
<tr>
<td>SECURITY INDICATION OF NETWORK IN A PACKET SWITCHED NETWORK METHOD AND APPARATUS FOR MANAGING TRAFFIC TO ENSURE GOOD IN PACKET SWITCHED NETWORKS METHOD AND SYSTEM FOR IMPLEMENTING END-TO-END QUALITY OF SERVICE PROVIDING IN-PACKET VIRTUAL PATHS OVER PROVISIONING NETWORKS FOR RELIABLE PACKET SWITCHED NETWORKS METHOD AND APPARATUS TO REDUCE HITTING IN NETWORKS</td>
<td>Pril Rahoul</td>
<td>24-Aug-04</td>
<td>6,711,225</td>
<td>USA</td>
</tr>
<tr>
<td></td>
<td>Fawaz Avman</td>
<td>29-Nov-05</td>
<td>6,970,424</td>
<td>USA</td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td>Patent No.</td>
<td>Reel: 040521 Frame: 0797</td>
</tr>
<tr>
<td>-------</td>
<td>----------</td>
<td>------------</td>
<td>------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>SAMPLING IN A PACKET PROCESSING SYSTEM</td>
<td>PARKER DAVID K</td>
<td>3-Mar-11</td>
<td>79966817</td>
<td>USA</td>
</tr>
<tr>
<td>ADDRESSABLE MEMORY IN PACKET PROCESSOR</td>
<td>PARKER DAVID K</td>
<td>30-Jun-09</td>
<td>8554978</td>
<td>USA</td>
</tr>
<tr>
<td>SYSTEM FOR ACCESSING CONTENT OPERATIONS</td>
<td>PARKER DAVID K</td>
<td>27-Dec-11</td>
<td>8085775</td>
<td>USA</td>
</tr>
<tr>
<td>SYSTEMS FOR SUPPORTING PACKET PROCESSING</td>
<td>PARKER DAVID K</td>
<td>27-Dec-11</td>
<td>7642950</td>
<td>USA</td>
</tr>
<tr>
<td>PACKET PROCESSOR ARCHITECTURE</td>
<td>PARKER DAVID K</td>
<td>10-Mar-09</td>
<td>602374</td>
<td>USA</td>
</tr>
<tr>
<td>PACKET PROCESSOR ARCHITECTURE</td>
<td>PARKER DAVID K</td>
<td>15-Feb-11</td>
<td>7889367</td>
<td>USA</td>
</tr>
<tr>
<td>PACKET PROCESSOR ARCHITECTURE</td>
<td>PARKER DAVID K</td>
<td>19-Jan-10</td>
<td>7649871</td>
<td>USA</td>
</tr>
<tr>
<td>PACKET PARSE</td>
<td>PARKER DAVID K</td>
<td>20-Oct-09</td>
<td>6700263</td>
<td>USA</td>
</tr>
<tr>
<td>DATA PACKET SYSTEM AND METHOD FOR ASSEMBLING A DATA PACKET</td>
<td>SWEENSON ERK R</td>
<td>12-Oct-10</td>
<td>7813381</td>
<td>USA</td>
</tr>
<tr>
<td>DATA PACKET SYSTEM AND METHOD FOR ASSEMBLING A DATA PACKET</td>
<td>SWEENSON ERK R</td>
<td>26-Oct-10</td>
<td>7824818</td>
<td>USA</td>
</tr>
<tr>
<td>COMMAND AND INSTRUCTION SET</td>
<td>PARKER DAVID K</td>
<td>9-Dec-08</td>
<td>7465628</td>
<td>USA</td>
</tr>
<tr>
<td>DATA MODIFICATION OPERATIONS</td>
<td>PARKER DAVID K</td>
<td>26-Oct-10</td>
<td>7824828</td>
<td>USA</td>
</tr>
<tr>
<td>DATA MODIFICATION OPERATIONS</td>
<td>PARKER DAVID K</td>
<td>17-Apr-12</td>
<td>8161270</td>
<td>USA</td>
</tr>
<tr>
<td>DATA ARCHITECTURE FOR A LAN SWITCH</td>
<td>HADDOCK STEPHEN R</td>
<td>31-Oct-06</td>
<td>7303983</td>
<td>USA</td>
</tr>
<tr>
<td>DATA ARCHITECTURE FOR A LAN SWITCH</td>
<td>HADDOCK STEPHEN R</td>
<td>25-Sep-01</td>
<td>6295279</td>
<td>USA</td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td>Patent No.</td>
<td>Reel: 040521 Frame: 0797</td>
</tr>
<tr>
<td>Title</td>
<td>Invention</td>
<td>Issue Date</td>
<td>Patent No.</td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-----------</td>
<td>------------</td>
<td>------------</td>
<td></td>
</tr>
<tr>
<td>PREVENTING ACCESS INTRUSION IN A NETWORK METHOD AND SYSTEM FOR DETECTING AND PREVENTING ACCESS</td>
<td>RATHI, MANISH M.</td>
<td>22-Apr-14</td>
<td>8,707,432</td>
<td></td>
</tr>
<tr>
<td>METHOD AND SYSTEM FOR DISTRIBUTED Assigned</td>
<td>CAIN VNPN</td>
<td>10-Jun-08</td>
<td>7,386,930</td>
<td></td>
</tr>
<tr>
<td>Assignments while allowing flexible VLANs in different networks</td>
<td>CARPENE SUSAN E</td>
<td>13-May-14</td>
<td>8,724,838</td>
<td></td>
</tr>
<tr>
<td>Assignments while allowing flexible VLANs in different networks</td>
<td>CARPENE SUSAN E</td>
<td>6-Apr-10</td>
<td>7,693,138</td>
<td></td>
</tr>
<tr>
<td>BALANCING OF NETWORK TRAFFIC FLOWS</td>
<td>LIM ANNE L</td>
<td>25-Feb-14</td>
<td>8,659,993</td>
<td></td>
</tr>
<tr>
<td>NETWORK LINK METHODS OF AND SYSTEMS FOR BALANCING A VIRTUAL LOAD</td>
<td>CHINGON DAVE</td>
<td>13-May-08</td>
<td>7,732,813</td>
<td></td>
</tr>
<tr>
<td>OVERREACHING DATA OVER A SERIAL INTERFACE METHOD OF AND SYSTEM FOR TRANSFERRING PACKETS’ MEMORY</td>
<td>BAUDER JANES R</td>
<td>15-Feb-11</td>
<td>7,888,968</td>
<td></td>
</tr>
<tr>
<td>AND METHODS PACKET PROCESSING SYSTEM ARCHITECTURE</td>
<td>SWENSEN ERIK R</td>
<td>20-Oct-09</td>
<td>7,606,249</td>
<td></td>
</tr>
<tr>
<td>PACKET PROCESSING SYSTEM ARCHITECTURE</td>
<td>PARKER DAVID K</td>
<td>26-Oct-10</td>
<td>7,820,268</td>
<td></td>
</tr>
<tr>
<td>PACKET PROCESSING SYSTEM ARCHITECTURE</td>
<td>PARKER DAVID K</td>
<td>10-Jun-08</td>
<td>7,385,984</td>
<td></td>
</tr>
<tr>
<td>PACKET PROCESSING SYSTEM ARCHITECTURE</td>
<td>PARKER DAVID K</td>
<td>21-Apr-09</td>
<td>7,222,168</td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td>Application No.</td>
<td>Filing Date</td>
</tr>
<tr>
<td>---------------------------------------------------------------------</td>
<td>-----------</td>
<td>------------</td>
<td>-----------------</td>
<td>-------------</td>
</tr>
<tr>
<td>CONTROL READS IN A NETWORK NODE METHOD AND APPARATUS FOR AVOIDING</td>
<td>Washabaugh, Douglas M</td>
<td>3-6-MAY-99</td>
<td>60627563</td>
<td>USA</td>
</tr>
<tr>
<td>CONTROL READS IN A NETWORK NODE METHOD AND APPARATUS FOR AVOIDING</td>
<td>Washabaugh, Douglas M</td>
<td>13-JUL-99</td>
<td>5922046</td>
<td>USA</td>
</tr>
<tr>
<td>RECONSTRUCTION SCALING THROUGH POLICY BASED READABLE MEDIA FOR IMPROVED MULTICAST NETWORKS. SYSTEMS, AND COMPUTER</td>
<td>Groesser, Donald B</td>
<td>14-APR-14</td>
<td>19008006</td>
<td>USA</td>
</tr>
<tr>
<td>CSMA/CD LAN CONFIGURATION METHOD AND APPARATUS FOR PRECODING AND PACKET DATA MODIFICATION PROCESSOR</td>
<td>Noble, Edward E</td>
<td>22-NOV-93</td>
<td>5369032</td>
<td>USA</td>
</tr>
<tr>
<td>NETWORK SWITCH FUNCTION INTEGRATED METHODS OF PERFORMING FORM-1700 FORM INTERFACE OPTIONS FOR UI PRODUCT</td>
<td>Kashyap, Prakash</td>
<td>1-JUL-14</td>
<td>87627483</td>
<td>USA</td>
</tr>
<tr>
<td>DYNAMICALLY TAGGING VLANS NETWORKS SYSTEMS AND APPARATUSES FOR</td>
<td>Groesser, David E</td>
<td>30-DEC-14</td>
<td>6822649</td>
<td>USA</td>
</tr>
<tr>
<td>INTERCONNECTED TOPOLOGY FRAMEWORK IN A NETWORK-TO-NETWORK FORWARPING INTER-CONNECT CONNECTION (SC)</td>
<td>Hendrick, Stephen</td>
<td>8-NOV-14</td>
<td>8891333</td>
<td>USA</td>
</tr>
<tr>
<td>INTERCONNECTED TOPOLOGY FRAMEWORK IN A NETWORK-TO-NETWORK FORWARPING INTER-CONNECT CONNECTION (SC)</td>
<td>Hendrick, Stephen</td>
<td>23-SEP-14</td>
<td>8842884</td>
<td>USA</td>
</tr>
<tr>
<td>AUTHORIZATION METHOD AND APPARATUS FOR NETWORK LOGON</td>
<td>Arrad, Michael</td>
<td>10-JUN-14</td>
<td>87521679</td>
<td>USA</td>
</tr>
<tr>
<td>WIRELESS ACCESS POINT</td>
<td>Ray, Brian</td>
<td>6-SEP-09</td>
<td>6001531</td>
<td>USA</td>
</tr>
<tr>
<td>HOUSING FOR ELECTRONIC DEVICE</td>
<td>Menick, Frederick</td>
<td>1-DEC-04</td>
<td>85182749</td>
<td>USA</td>
</tr>
<tr>
<td>PORT MANAGEMENT SYSTEM</td>
<td>Vip, Michael</td>
<td>10-JUN-14</td>
<td>5316599</td>
<td>USA</td>
</tr>
<tr>
<td>Schedule A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bandwidth Method and System for Allocating CPU</td>
<td>Hegde, Dinesh</td>
<td>23-May-00</td>
<td>6067537</td>
<td>USA</td>
</tr>
<tr>
<td>Drama Party Protection Scheme</td>
<td>Gahan, Richard A</td>
<td>00-Sep-00</td>
<td>6125466</td>
<td>USA</td>
</tr>
<tr>
<td>Improved Memory Utilization</td>
<td>Green, Andrew</td>
<td>18-Nov-03</td>
<td>6580639</td>
<td>USA</td>
</tr>
<tr>
<td>Static Fast Packet Switch Having Method of Round Robin Bus Arbitration</td>
<td>Tippay, William J</td>
<td>09-Apr-99</td>
<td>5895694</td>
<td>USA</td>
</tr>
<tr>
<td>Radiation High-Speed Backplane Bus with Low Retention in a Network Interface</td>
<td>Metzgar, William</td>
<td>13-Apr-99</td>
<td>6584217</td>
<td>USA</td>
</tr>
<tr>
<td>Synchronization Between Two Processors Method for Maintaining Time</td>
<td>Jarvis, Neil A</td>
<td>09-Jun-99</td>
<td>2709140</td>
<td>USA</td>
</tr>
<tr>
<td>Architecture Two-Port Distributed Ethernet Bus</td>
<td>Elle, Elaine H</td>
<td>09-Oct-99</td>
<td>5631719</td>
<td>USA</td>
</tr>
<tr>
<td>Network Method and System for Distributing Clock</td>
<td>Eden, Deborah E</td>
<td>22-Jun-94</td>
<td>6375017</td>
<td>USA</td>
</tr>
<tr>
<td>Circuit Card Hot Swappable Chassis and Electronic</td>
<td>Frasier, Kevin M</td>
<td>28-Dec-99</td>
<td>6008535</td>
<td>USA</td>
</tr>
<tr>
<td>Circuit Card Hot Swappable Chassis and Electronic</td>
<td>Frasier, Kevin M</td>
<td>28-Dec-99</td>
<td>6008535</td>
<td>USA</td>
</tr>
<tr>
<td>BUS Access Amongst Coexisting Devices Method and Apparatus for Arbitrating Access Amongst Coexisting Devices</td>
<td>Tippay, William J</td>
<td>09-Jun-99</td>
<td>2709140</td>
<td>USA</td>
</tr>
<tr>
<td>Bit-Serial and Apparatus for Adaptive Port</td>
<td>Brown, Benjamin J</td>
<td>13-Nov-00</td>
<td>6311427</td>
<td>USA</td>
</tr>
<tr>
<td>Communication Device Transmission in a Network Allocating Buffers for Data</td>
<td>Prucho, Sibylana</td>
<td>23-Nov-94</td>
<td>6822966</td>
<td>USA</td>
</tr>
<tr>
<td>Network Switch with Panic Mode</td>
<td>Kong, Paul K</td>
<td>09-Oct-94</td>
<td>6910124</td>
<td>USA</td>
</tr>
<tr>
<td>System Resource Availability Manager</td>
<td>Zalman, Arthur L</td>
<td>22-May-00</td>
<td>722228</td>
<td>USA</td>
</tr>
<tr>
<td>Routing Internet Protocol (IP) Work Group</td>
<td>Culler, Howard C</td>
<td>19-Jun-00</td>
<td>6234820</td>
<td>USA</td>
</tr>
</tbody>
</table>

Inventor

Inventor
<table>
<thead>
<tr>
<th>Title</th>
<th>Inventor</th>
<th>Issue Date</th>
<th>Patent No.</th>
<th>Filing Date</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schedule A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Resolution apparatus with multiple level collision hash-based translation method and apparatus</td>
<td>POOLET NIGEL T</td>
<td>6-SEP-99</td>
<td>5929000</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Searching compressed prefix matching database</td>
<td>VARGHESE GEORGE</td>
<td>11-JAN-00</td>
<td>6091669</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Searching compressed prefix matching database</td>
<td>VARGHESE GEORGE</td>
<td>14-JUL-96</td>
<td>5781172</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Devices in a computer system for interlocking and transferring information between</td>
<td>QUINTILIAN LUNA M</td>
<td>00-DEC-00</td>
<td>6097949</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Load sharing for redundant networks</td>
<td>EDMONDSON WILLIAM A</td>
<td>22-JUN-00</td>
<td>6158131</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Network controlling data routing through a method and apparatus for dynamic system interconnection and network security</td>
<td>THOMAS ROBERT E</td>
<td>18-APR-96</td>
<td>5796269</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Distributed intrusion response system</td>
<td>RUSE JOHN J</td>
<td>01-SEP-07</td>
<td>8347373</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Distribution of intrusion signatures system and method for dynamic</td>
<td>ROUSE JOHN J</td>
<td>1-NOV-13</td>
<td>8347373</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Events associated with network security</td>
<td>KEVIN D</td>
<td>19-DEC-00</td>
<td>7152242</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Distributed rate calculation and link by link flow control traffic control system having</td>
<td>CHARY ANNA</td>
<td>19-OCT-99</td>
<td>5968198</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Loss in data transmission devices method and apparatus for reducing data</td>
<td>GREETEL ANSELY</td>
<td>04-APR-98</td>
<td>6046987</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Extended ECC system</td>
<td>BRENT ANTHONY NEW</td>
<td>23-JUL-92</td>
<td>5921500</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Check sequence preservation</td>
<td>BRENT ANTHONY NEW</td>
<td>21-SEP-92</td>
<td>5921500</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Processing threads in a communication network scheduling mechanisms using</td>
<td>TING DENNIS</td>
<td>04- JUL-00</td>
<td>6082515</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td>Patent No.</td>
<td>Filing Date</td>
<td>Country</td>
</tr>
<tr>
<td>Distribution</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Category</td>
<td>Inventor</td>
<td>Issue Date</td>
<td>Patent No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>---------------------</td>
<td>------------</td>
<td>------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Identity/Identity of the user</td>
<td>Robertson James</td>
<td>10-Mar-05</td>
<td>6892309</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Through a network bridge with a few group address translation</td>
<td>Hoo Hwee William R</td>
<td>21-Sep-99</td>
<td>6956353</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multicast switching</td>
<td>Andleere Phillip</td>
<td>18-Dec-00</td>
<td>6315937</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connection preparation in switched network</td>
<td>Brice Bruce</td>
<td>1-Nov-00</td>
<td>6151324</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concurrent aggregation in switched network</td>
<td>Buchanan Richard</td>
<td>21-Nov-99</td>
<td>5940377</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Method for networks</td>
<td>Brice Bruce</td>
<td>24-Jul-99</td>
<td>5841042</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote port mirroring system and data privacy</td>
<td>Buchanan Richard</td>
<td>1-Mar-04</td>
<td>8233960</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Method for network traffic mirroring</td>
<td>Prattirra David E</td>
<td>30-Mar-10</td>
<td>769040</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Network devices</td>
<td>Charles Park Dominic</td>
<td>15-Jul-08</td>
<td>7410149</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hierarchical local area network</td>
<td>Soddor Arnonld</td>
<td>18-Oct-11</td>
<td>8040898</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apparatus and method for virtual local area network</td>
<td>Soddor Arnonld</td>
<td>5-May-09</td>
<td>7252924</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hierarchical local area network</td>
<td>Shahn Hanasshu</td>
<td>10-Jun-08</td>
<td>7386695</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methods and apparatus for virtual Local area network</td>
<td>Shahn Hanasshu</td>
<td>7-Dec-99</td>
<td>6000000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Addressable memory</td>
<td>Snicke Robert J</td>
<td>7-Dec-99</td>
<td>6000000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Addressable memory</td>
<td>Snicke Robert J</td>
<td>7-Dec-99</td>
<td>6000000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Investor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td>Patent No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>----------</td>
<td>------------</td>
<td>------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOOLEON K</td>
<td>20-SEP-11</td>
<td>823321</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PERLMAN RABIA JOY</td>
<td>20-MAY-03</td>
<td>6567410</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HARPER JOHN ANTHONY</td>
<td>14-NOV-00</td>
<td>614976</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEVEN ANTHONY W</td>
<td>02-MAY-00</td>
<td>6067300</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIPILITTO JASON</td>
<td>21-FEB-03</td>
<td>6310151</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ORAN DAVID R</td>
<td>18-MAY-99</td>
<td>6905732</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GULLETTI DAVID L</td>
<td>17-MAY-98</td>
<td>5735971</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PETTIT STEVEN A</td>
<td>21-DEC-10</td>
<td>7835972</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FRATLURA DAVID E</td>
<td>25-AUG-09</td>
<td>7380430</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FRATLURA DAVID E</td>
<td>29-MAY-12</td>
<td>119107</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>YANG HENRY S</td>
<td>17-NOV-98</td>
<td>5839897</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>POST DONALD L</td>
<td>21-FEB-97</td>
<td>5596575</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RICHMOND JAMES</td>
<td>24-JAN-06</td>
<td>6995923</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Invention</td>
<td>Issue Date</td>
<td>Patent No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>-----------</td>
<td>------------</td>
<td>------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Method and Apparatus for MACRO NETWORK IMPROVEMENTS</td>
<td>POOLE NIGEL T.</td>
<td>28-SEP-00</td>
<td>6044121</td>
<td></td>
<td></td>
</tr>
<tr>
<td>INTERFACE PASSIVE ANALOG FILTER FOR NETWORK OPERATION</td>
<td>CURTIS ROBERT S.</td>
<td>11-FEB-00</td>
<td>6044120</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TIME SYNCHRONIZED WIRELESS METHOD AND APPARATUS</td>
<td>KRISHNAN VENKATRAMAN</td>
<td>27-DEC-11</td>
<td>8163269</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SECURITY AND POWER CONSERVATION</td>
<td>GRAHAM RICHARD W.</td>
<td>27-DEC-11</td>
<td>7935544</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NETWORK OBJECT DATABASE INTERFACE FOR EDITING OBJECTS OF A DISTRIBUTED CONNECTION-ORIENTED SERVICES NETWORK</td>
<td>RICHMOND JAMES P.</td>
<td>20-JAN-00</td>
<td>7405917</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DYNAMIC CONNECTION-ORIENTED SERVICES</td>
<td>GRANT THOMAS A.</td>
<td>23-MAR-04</td>
<td>6711117</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHOD AND APPARATUS OF VIRTUAL CLASS POLICY MANAGEMENT</td>
<td>FREITJURA DAVID E.</td>
<td>3-MAY-11</td>
<td>7936770</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SYSTEM AND METHOD FOR DYNAMIC NETWORK POLICY MANAGEMENT</td>
<td>ROSS JOHN J.</td>
<td>15-JAN-10</td>
<td>7739372</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENHANCED DYNAMIC NETWORK POLICY SYSTEM AND METHOD FOR ADDRESS BLOCK NETWORK</td>
<td>GRAHAM RICHARD W.</td>
<td>17-MAY-11</td>
<td>7945945</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WIRELESS LOCAL AREA COMMUNICATION NETWORK SYSTEM AND METHOD</td>
<td>MYERS ROBERT W.</td>
<td>10-SEP-10</td>
<td>7688206</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WIRELESS NETWORK SYSTEM AND METHOD</td>
<td>MYERS ROBERT W.</td>
<td>11-NOV-00</td>
<td>7459040</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHOD AND APPARATUS FOR TRANSMITTING TRANSPARENCY BRIDGING TRAFFIC ACROSS WIDE AREA NETWORKS</td>
<td>PERLMAN RADIA JOY</td>
<td>6-FEB-99</td>
<td>5873036</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WIDE AREA NETWORK LAN DATA OVER A SYNCHRONOUS WIDE AREA NETWORK METHOD AND APPARATUS FOR TRANSMITTING</td>
<td>AUGUSTA STEPHEN D.</td>
<td>19-SEP-00</td>
<td>6122814</td>
<td></td>
<td></td>
</tr>
<tr>
<td>28-SEP-00</td>
<td>6044121</td>
<td>11-FEB-00</td>
<td>6044120</td>
<td></td>
<td></td>
</tr>
<tr>
<td>27-DEC-11</td>
<td>8163269</td>
<td>27-DEC-11</td>
<td>7935544</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20-JAN-00</td>
<td>7405917</td>
<td>23-MAR-04</td>
<td>6711117</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-MAY-11</td>
<td>7936770</td>
<td>15-JAN-10</td>
<td>7739372</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17-MAY-11</td>
<td>7945945</td>
<td>10-SEP-10</td>
<td>7688206</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11-NOV-00</td>
<td>7459040</td>
<td>6-FEB-99</td>
<td>5873036</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19-SEP-00</td>
<td>6122814</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td>Patent No.</td>
<td>Status</td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>---------------------</td>
<td>------------</td>
<td>------------</td>
<td>---------</td>
<td></td>
</tr>
<tr>
<td>Transfer Mode ATM Network</td>
<td>Scott James</td>
<td>14-Sep-99</td>
<td>6836467</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Requirements for Call-by-Call Protocol</td>
<td>Ramakrishnan K</td>
<td>7-Oct-97</td>
<td>5675744</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>System for Setting Congestion Avoidance</td>
<td>Ramakrishnan K</td>
<td>16-Sep-97</td>
<td>5669514</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>System for Allocating Bandwidth</td>
<td>Ozeren Cuneyt M</td>
<td>14-Aug-96</td>
<td>6654377</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Efficient Distributed Method for Providing Max-Min Fair Rates for a</td>
<td>Cakray, Anna</td>
<td>8-Mar-03</td>
<td>6953545</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Combined Input-Output Buffered Crossbar</td>
<td>Patlel Vaidysh S</td>
<td>13-May-03</td>
<td>6586872</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Non-Blocking Switch with Blocking</td>
<td>Kishana Patlabhirama</td>
<td>1-Nov-00</td>
<td>6972772</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Methods for Improved Data Caching</td>
<td>Gregorio Haskins</td>
<td>15-Aug-06</td>
<td>7093023</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>For Use Together with Configuration and Interface Assembly</td>
<td>Scheeler Scottt</td>
<td>4-Feb-04</td>
<td>6865498</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Network Interconnects Frequency Mitigation in a Cell Status</td>
<td>Ross Theodore L</td>
<td>12-Oct-99</td>
<td>5965946</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Method and Apparatus for Performing TX</td>
<td>Patlel Elaine H</td>
<td>9-May-00</td>
<td>6901173</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>Architecture: Two Phase Distributed Ethernet Bus</td>
<td>Inovec</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Invention</td>
<td>Issue Date</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-----------</td>
<td>------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INTERRUPT FREQUENCY MITIGATION IN A NETWORK NODE</td>
<td>INVENTOR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BASED NETWORK SERVICES OVER A PACKET</td>
<td>WOOL, LEON</td>
<td>8-APR-08</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPANNING TREE METHOD AND APPARATUS FOR DETERMINING A 18-BIT FRAME CHECK SEQUENCE</td>
<td>SHAND, IAN M C</td>
<td>3-SEP-96</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PREVIOUS LOCAL AREA NETWORKS</td>
<td>RUSHISHNATHA, ANIL G</td>
<td>16-NOV-99</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMPROVED MEMORY UTILIZATION SECURE FAST PACKET SWITCH HAVING A NETWORK</td>
<td>GRIMES, ANDREW</td>
<td>8-APR-00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMPROVED PHANTOM FLOW CONTROL METHOD AND APPARATUS WITH IMPROVED STABILITY</td>
<td>CHARYN, ANNA</td>
<td>2-NOV-99</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMPROVED PHANTOM FLOW CONTROL METHOD</td>
<td>CHARYN, ANNA</td>
<td>21-SEP-99</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMPROVED PHANTOM FLOW CONTROL METHOD AND APPARATUS</td>
<td>TANAKA KOKICHII</td>
<td>2-SEP-99</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMPROVED PHANTOM FLOW CONTROL METHOD</td>
<td>RAMAKRISHNAN, K</td>
<td>28-APR-98</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMPROVED PHANTOM FLOW CONTROL METHOD AND APPARATUS</td>
<td>RAMAKRISHNAN, K</td>
<td>28-APR-98</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMPROVED PHANTOM FLOW CONTROL METHOD</td>
<td>RAMAKRISHNAN, K</td>
<td>28-APR-98</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMPROVED PHANTOM FLOW CONTROL METHOD</td>
<td>RAMAKRISHNAN, K</td>
<td>28-APR-98</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMPROVED PHANTOM FLOW CONTROL METHOD</td>
<td>RAMAKRISHNAN, K</td>
<td>28-APR-98</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMPROVED PHANTOM FLOW CONTROL METHOD</td>
<td>RAMAKRISHNAN, K</td>
<td>28-APR-98</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td>Patent No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>----------------</td>
<td>------------</td>
<td>------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DATA PACKET FORWARDING APPARATUS AND METHOD FOR MULTICAST</td>
<td>DONALD B. GROSSER</td>
<td>22-Sep-15</td>
<td>6,744,447</td>
<td></td>
<td></td>
</tr>
<tr>
<td>APPLICATIONS AND CONTROL BASED ON SYSTEM AND RELATED METHOD FOR NETWORK</td>
<td>MARKUS NISSELT</td>
<td>8-Sep-15</td>
<td>6,713,826</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CONNECTION MIDPLANE FOR ORTHOGONAL DIRECT</td>
<td>CHRISTOPHER A. WIDMANN</td>
<td>25-Aug-15</td>
<td>6,711,600</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SELECT TIME DURATION METHOD AND APPARATUS FOR DYNAMICITY</td>
<td>CELDEL ALEXANDER</td>
<td>12-Oct-08</td>
<td>7,411,103</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMMUNICATION NETWORK TIME PARSER FOR DATA PACKETS IN A</td>
<td>STEPHEN HADDOCK</td>
<td>2-Nov-99</td>
<td>6,297,838</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REAL TIME PARSER FOR DATA PACKETS IN A</td>
<td>HASAN, SANTOSH K.</td>
<td>9-Apr-97</td>
<td>6,080,808</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCHEDULE TABLE POINTERS APPARATUS AND METHOD FOR MANAGING</td>
<td>THOMAS, ROBERT E</td>
<td>12-Sep-96</td>
<td>6,282,612</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRANSMIT BUFFER MEMORY OF DATA FROM A HOST MEMORY TO A LOOK-UP Table SCHEDULING OF DATA TRANSFERS</td>
<td>THOMAS, ROBERT E</td>
<td>12-Sep-96</td>
<td>6,286,206</td>
<td></td>
<td></td>
</tr>
<tr>
<td>APPARATUS AND METHOD FOR PERFORMING A TRANSMIT BUFFER MEMORY</td>
<td>THOMAS, ROBERT E</td>
<td>12-Sep-96</td>
<td>6,297,029</td>
<td></td>
<td></td>
</tr>
<tr>
<td>APPARATUS AND METHOD FOR PERFORMING A TRANSMIT BUFFER MEMORY</td>
<td>THOMAS, ROBERT E</td>
<td>12-Sep-96</td>
<td>6,299,695</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RM CELL ON AN ATM NETWORK CONGESTION INDICATOR BIT IN BACKWARD AND ADVANCED ADDRESSING METHODS AND A DESIGNATION OF MULTICAST ADDRESS AND A DESIGNATION OF A COMMUNICATION PACKET INCLUDING A RINNINGHAN ALI G.</td>
<td>TANAKA, KOCHI</td>
<td>12-Sep-96</td>
<td>6,966,968</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Issue</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>----------</td>
<td>------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INFRASTRUCTURE FOR WIRELESS LANS</td>
<td>Heiner Schwede, Robert E. Beach</td>
<td>2014-04-01</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NETWORK TO NETWORK CONNECTION TOPOLOGY</td>
<td>Daniel G. Wall, William E. Beet</td>
<td>2002-07-16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FORWARDING INTER-SWITCH CONNECTION ASG</td>
<td>Stephen R. Hadcock</td>
<td>2003-09-16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRIVATE LAN SERVICES</td>
<td>Sunil P. Shah</td>
<td>2007-11-16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EVOLUTION STEERING OF ROAMING CONNECTION STATE BASED LONG TERM</td>
<td>Prabhakar Ramachand</td>
<td>2007-11-16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEVICES AND RELATED METHOD FOR HARDWARE AGGREGATION GROUPS</td>
<td>Shankara Ramamurthy</td>
<td>2007-11-16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>APPLICATION DEFINITION AND RELATED METHOD FOR FRAME SYSTEM</td>
<td>Michael Rash</td>
<td>2016-06-15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>APPLICATION RUNNING ON A NETWORK DEVICE AND RELATED METHOD FOR SCANNING SOFTWARE SUBSTANTION SYSTEM</td>
<td>Venkadesan Marimuthu</td>
<td>2017-11-15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DATABASE FOR DYNAMIC AND ABSTRACT NETWARE OBJECT</td>
<td>Lavies P. Raghunand</td>
<td>2016-06-15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>----------</td>
<td>------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INFRASTRUCTURE FOR WIRELESS LANS</td>
<td>Heiner Schwede, Robert E. Beach</td>
<td>2014-04-01</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NETWORK TO NETWORK CONNECTION TOPOLOGY</td>
<td>Daniel G. Wall, William E. Beet</td>
<td>2002-07-16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FORWARDING INTER-SWITCH CONNECTION ASG</td>
<td>Stephen R. Hadcock</td>
<td>2003-09-16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRIVATE LAN SERVICES</td>
<td>Sunil P. Shah</td>
<td>2007-11-16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EVOLUTION STEERING OF ROAMING CONNECTION STATE BASED LONG TERM</td>
<td>Prabhakar Ramachand</td>
<td>2007-11-16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DEVICES AND RELATED METHOD FOR HARDWARE AGGREGATION GROUPS</td>
<td>Shankara Ramamurthy</td>
<td>2007-11-16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>APPLICATION DEFINITION AND RELATED METHOD FOR FRAME SYSTEM</td>
<td>Michael Rash</td>
<td>2016-06-15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>APPLICATION RUNNING ON A NETWORK DEVICE AND RELATED METHOD FOR SCANNING SOFTWARE SUBSTANTION SYSTEM</td>
<td>Venkadesan Marimuthu</td>
<td>2017-11-15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DATABASE FOR DYNAMIC AND ABSTRACT NETWARE OBJECT</td>
<td>Lavies P. Raghunand</td>
<td>2016-06-15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td>Patent No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>----------------</td>
<td>------------</td>
<td>------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NETWORK AND OPTIMIZATION OF COMMUNICATIONS</td>
<td>Roger R. Skidmore</td>
<td>2006-12-26</td>
<td>7,155,228</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHOD AND SYSTEM FOR ANALYSIS OF DESIGN</td>
<td>Theodore S. Papaoport</td>
<td>2006-04-25</td>
<td>7,053,642</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NETWORK AND OPTIMIZATION OF COMMUNICATIONS</td>
<td>Roger R. Skidmore</td>
<td>2001-11-13</td>
<td>6,313,999</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OPTIMIZATION OF ANTEENA POSITIONING IN 3-D</td>
<td>Theodore S. Papaoport</td>
<td></td>
<td>6,694,470</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHOD AND SYSTEM FOR AUTOMATED SYMMETRY</td>
<td>Chris Zecelien</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WIRELES NETWORKS</td>
<td>Daniel E. Lewis</td>
<td>2006-09-17</td>
<td>6,951,399</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MULTI-LEVEL ENCRYPTION SYSTEM FOR</td>
<td>Daniel E. Lewis</td>
<td>2003-02-25</td>
<td>6,956,509</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENVIRONMENT PERFORMANCE IN CAMPS AND INDOOR</td>
<td>Theodore S. Papaoport</td>
<td>2000-08-22</td>
<td>7,069,261</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MONITORING WIRELESS NETWORKS AND METHOD FOR MEASURING AND</td>
<td>Theodore S. Papaoport</td>
<td>2005-04-05</td>
<td>6,879,561</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMMUNICATION NETWORKS AND MEASUREMENT DATABASE OF A WIRELESS</td>
<td>Theodore S. Papaoport</td>
<td>2002-08-27</td>
<td>6,442,507</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SYSTEM FOR CREATING A COMPUTER MODEL</td>
<td>David P. Goren</td>
<td></td>
<td>7,001,076</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TELECOMMUNICATION SYSTEMS AND WIRELESS APPARATUS FOR INFRARED A WIRELESS</td>
<td>ALEX GERNIER</td>
<td>2000-07-30</td>
<td>6,600,749</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOCAL NETWORK AND WIRELESS VOICE</td>
<td>Theodore S. Papaoport</td>
<td>2002-05-21</td>
<td>6,993,216</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TELECOMMUNICATIONS SYSTEMS AND WIRELESS APPARATUS FOR INFRARED A WIRELESS</td>
<td>ALEX GERNIER</td>
<td>2000-07-10</td>
<td>6,989,886</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MULTI-COMMUNICATION ACCESS POINT</td>
<td>Daniel E. Lewis</td>
<td></td>
<td>6,989,886</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MULTI-COMMUNICATION ACCESS POINT</td>
<td>Daniel E. Lewis</td>
<td></td>
<td>6,989,886</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MULTI-COMMUNICATION ACCESS POINT</td>
<td>Daniel E. Lewis</td>
<td></td>
<td>6,989,886</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MULTI-COMMUNICATION ACCESS POINT</td>
<td>Daniel E. Lewis</td>
<td></td>
<td>6,989,886</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MULTI-COMMUNICATION ACCESS POINT</td>
<td>Daniel E. Lewis</td>
<td></td>
<td>6,989,886</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MULTI-COMMUNICATION ACCESS POINT</td>
<td>Daniel E. Lewis</td>
<td></td>
<td>6,989,886</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MULTI-COMMUNICATION ACCESS POINT</td>
<td>Daniel E. Lewis</td>
<td></td>
<td>6,989,886</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MULTI-COMMUNICATION ACCESS POINT</td>
<td>Daniel E. Lewis</td>
<td></td>
<td>6,989,886</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
<td>--------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schedule A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCHITECTURE, APPLICATIONS, AND METHODS</td>
<td>RICHARD WATSON, NAVARAY NARAYN, CHARLES PENDERLEY, WILLIAM BROOKS, RAJ BRIDGELAND</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MULTI-INTERFACE DEVICES. APPLICATIONS, AND METHODS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CONTROL FOR RFID TRANSMISSION</td>
<td>RICHARD WATSON, NAVARAY NARAYN, RAJ BRIDGELAND, WILLIAM BROOKS</td>
<td>2009-02-17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>802.11 NETWORKS USING DYNAMIC POWER</td>
<td>MICHAEL L. TROY / POWER</td>
<td>2009-08-04</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PERFORMANCE OF WIRELESS COMMUNICATION SYSTEM FOR THE THREE DIMENSIONAL DISPLAY</td>
<td>THEODORE S. RAPPAPORT</td>
<td>2007-11-20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PERFORMANCE OF WIRELESS COMMUNICATION SYSTEM</td>
<td>THEODORE S. RAPPAPORT</td>
<td>2007-12-24</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WITH A BUILDING DATABASE MANAGEMENT</td>
<td>THEODORE S. RAPPAPORT</td>
<td>2009-05-04</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WITH A BUILDING DATABASE MANAGEMENT</td>
<td>THEODORE S. RAPPAPORT</td>
<td>2013-10-25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WITH A BUILDING DATABASE MANAGEMENT</td>
<td>THEODORE S. RAPPAPORT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NETWORK PERFORMANCE</td>
<td>THEODORE S. RAPPAPORT</td>
<td>2005-02-01</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TIME BILL OF MATERIALS AND EVALUATING A REAL METHOD AND SYSTEM FOR GENERATION A REAL</td>
<td>THEODORE S. RAPPAPORT</td>
<td>2009-02-17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td>Patent No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------------</td>
<td>----------------</td>
<td>-------------</td>
<td>-------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voice and data wireless communications</td>
<td>David Monrookley</td>
<td>2002-06-11</td>
<td>6404772</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Password control in wireless networks</td>
<td>Jacob Sharoony</td>
<td>2002-06-15</td>
<td>6411608</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occupying overlapping physical spaces in multiple wireless local area networks</td>
<td>Robert E. Beach</td>
<td>2011-03-08</td>
<td>7173222</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wireless local area networks</td>
<td>Robert E. Beach</td>
<td>2011-09-27</td>
<td>82072320</td>
<td></td>
<td></td>
</tr>
<tr>
<td>To perform a management function on an area network</td>
<td>Robert E. Beach</td>
<td>2014-04-15</td>
<td>8492378</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A system for multiple wireless local area networks</td>
<td>Robert E. Beach</td>
<td>2013-07-30</td>
<td>8499473</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A cell controller for multiple wireless local area networks</td>
<td>Robert E. Beach</td>
<td>2014-04-15</td>
<td>8499473</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A point for multiple wireless local area networks</td>
<td>Robert E. Beach</td>
<td>2013-03-05</td>
<td>8391256</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occupying overlapping physical spaces in wireless networks</td>
<td>Robert E. Beach</td>
<td>2011-11-10</td>
<td>7405208</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Method and apparatus for roaming on a wireless network</td>
<td>Robert E. Beach</td>
<td>2008-06-10</td>
<td>7386298</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Security in multiple wireless local area networks</td>
<td>Robert E. Beach</td>
<td>2007-02-06</td>
<td>7173223</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occupying overlapping physical spaces in multiple wireless local area networks</td>
<td>Robert E. Beach</td>
<td>2007-02-06</td>
<td>7173223</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>-----------</td>
<td>------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EFFECTS WHICH CONSIDERS FREQUENCY DEPENDANT DEPLOYING A COMMUNICATION NETWORK METHOD AND SYSTEM FOR DESIGNING OR MULTIPLE COMPONENTS WHICH ALLOW SIMULTANEOUS SELECTION OF DEPLOYING A COMMUNICATION NETWORK METHOD AND SYSTEM FOR DESIGNING OR WHICH CONSIDERS COMPONENT ATTRIBUTES DEPLOYING A COMMUNICATION NETWORK METHOD AND SYSTEM FOR DESIGNING OR PERFORMANCE COMMUNICATION NETWORK SYSTEM VISUALIZING AND COMPARE SYSTEM AND METHOD FOR EFFICIENT NETWORK OPTIMIZATION OF A COMMUNICATION PORTABLE DEVICES DEPLOYMENT, TEST, AND SYSTEM METHOD AND APPARATUS FOR NETWORK AND METHOD VOICE AND DATA WIRELESS COMMUNICATIONS</td>
<td>RODERICK R. RAPPAHORN</td>
<td>2003-09-23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>WANDA SEALANDER</td>
<td>2012-03-29</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>WANDA SEALANDER</td>
<td>2012-04-03</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>WANDA SEALANDER</td>
<td>2010-06-15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>WANDA SEALANDER</td>
<td>2010-09-28</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Invention</td>
<td>Issue Date</td>
<td>Appl. No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>-----------</td>
<td>------------</td>
<td>-----------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NETWORKS OPTIMIZATION OF DATA COMMUNICATION SYSTEMS AND METHOD FOR DESIGN, TRACKING, AND MEASUREMENT</td>
<td>BENJAMIN HENRY ROGER R. SANDMORE THEODORE S. RAPPAPORT</td>
<td>2001-02-02</td>
<td>6973622 C1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NETWORKS OPTIMIZATION OF DATA COMMUNICATION SYSTEMS AND METHOD FOR DESIGN, TRACKING, AND MEASUREMENT</td>
<td>BENJAMIN HENRY ROGER R. SANDMORE THEODORE S. RAPPAPORT</td>
<td>2013-08-06</td>
<td>8303336</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NETWORKS OPTIMIZATION OF DATA COMMUNICATION SYSTEMS AND METHOD FOR DESIGN, TRACKING, AND MEASUREMENT</td>
<td>BENJAMIN HENRY ROGER R. SANDMORE THEODORE S. RAPPAPORT</td>
<td>2003-12-06</td>
<td>6973622</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CONFUGURATION IN 3-D NETWORK EQUIPMENT MODEL, POSITION, AND METHOD, AND SYSTEM FOR AUTOMATED SELECTION OF OPTIMAL COMMUNICATION</td>
<td>PRAYEEN SIEBERT LARRY W. SIEBERT R. SANDMORE THEODORE S. RAPPAPORT</td>
<td>2006-05-30</td>
<td>J755107</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NETWORK DEPENDENT EFFECTS OF A COMMUNICATION NETWORK AND SYSTEM TO MODEL FREQUENCY</td>
<td>ERIC REINHENDER ROGER R. SANDMORE THEODORE S. RAPPAPORT</td>
<td>2012-01-16</td>
<td>8290499</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EFFECTS WHICH CONSIDERS FREQUENCY DEPENDENT NETWORK DEPLOYING A COMMUNICATION NETWORK AND SYSTEM FOR DESIGNING OR NETWORK AND SYSTEM WITH COMPONENT KITS</td>
<td>ERIC REINHENDER ROGER R. SANDMORE THEODORE S. RAPPAPORT</td>
<td>2011-11-15</td>
<td>6624793 C1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EFFECTS WHICH CONSIDERS FREQUENCY DEPENDENT NETWORK DEPLOYING A COMMUNICATION NETWORK AND SYSTEM FOR DESIGNING OR DEPLOYING A NETWORK AND SYSTEM WITH COMPONENT KITS</td>
<td>ERIC REINHENDER ROGER R. SANDMORE THEODORE S. RAPPAPORT</td>
<td>2011-04-26</td>
<td>7933605</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EFFECTS WHICH CONSIDERS FREQUENCY DEPENDENT NETWORK DEPLOYING A COMMUNICATION NETWORK AND SYSTEM FOR DESIGNING OR DEPLOYING A NETWORK AND SYSTEM WITH COMPONENT KITS</td>
<td>ERIC REINHENDER ROGER R. SANDMORE THEODORE S. RAPPAPORT</td>
<td>2010-03-16</td>
<td>7980644</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EFFECTS WHICH CONSIDERS FREQUENCY DEPENDENT NETWORK DEPLOYING A COMMUNICATION NETWORK AND SYSTEM FOR DESIGNING OR DEPLOYING A NETWORK AND SYSTEM WITH COMPONENT KITS</td>
<td>ERIC REINHENDER ROGER R. SANDMORE THEODORE S. RAPPAPORT</td>
<td>2007-10-30</td>
<td>7117208</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EFFECTS WHICH CONSIDERS FREQUENCY DEPENDENT NETWORK DEPLOYING A COMMUNICATION NETWORK AND SYSTEM FOR DESIGNING OR DEPLOYING A NETWORK AND SYSTEM WITH COMPONENT KITS</td>
<td>ERIC REINHENDER ROGER R. SANDMORE THEODORE S. RAPPAPORT</td>
<td>2010-03-16</td>
<td>7980644</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Invention</td>
<td>Issue Date</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>-----------</td>
<td>------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SYSTEM TRANSMISSION OF DATA PACKETS IN A RADIO SYSTEM AND METHOD OF OPERATING THE INFRASTRUCTURE MANAGING TERRAIN, BUILDINGS AND METADATA AND SYSTEM FOR MODELING AND MEASUREMENTS LOCATION AND INTERPRETATION OF TEXTUAL AND GRAPHICAL DEMARCATION OF NETWORKS OUTDOOR ENVIRONMENT COMMUNICATIONS METHOD AND APPARATUS FOR WIRELESS NETWORKS ASSET LOCATION IN COMMUNICATION METHODS AND APPARATUS FOR IDENTIFYING METHOD AND APPARATUS FOR IDENTIFYING WIRELESS CLOCK SYNCHRONIZATION</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MARK RUSSELL DEFORD</td>
<td>2009-12-15</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PREVEEN SETHENLATH</td>
<td>2007-08-16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>THEODORE S RAPPAPORT</td>
<td>2009-03-28</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BENJAMIN HENRY</td>
<td>2007-10-11</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>THEODORE S RAPPAPORT</td>
<td>2009-03-28</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ROGER R SIDMORE</td>
<td>2007-08-11</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>THEODORE S RAPPAPORT</td>
<td>2009-03-28</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHRISTOPHER HOOK</td>
<td>2006-06-27</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DAVID P GOREN</td>
<td>2009-11-28</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ROGER R SIDMORE</td>
<td>2007-04-18</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BILL SACHDA</td>
<td>2009-04-18</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BENJAMIN L BERNSTEIN</td>
<td>7633974</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA</td>
<td>7209115</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA</td>
<td>7168883</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA</td>
<td>7544335</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA</td>
<td>7019775</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA</td>
<td>6735420</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schedule A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scott Rastar</td>
<td>2009-05-12</td>
<td>7,532,825</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scott Rastar</td>
<td>2008-10-22</td>
<td>7,322,441</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fred T. Tzeng</td>
<td>2007-10-02</td>
<td>7,277,404</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scott Rastar</td>
<td>2006-09-06</td>
<td>7,038,796</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scott Rastar</td>
<td>2006-05-09</td>
<td>7,042,827</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DAWN M. Hollingerworth Edwin L. Tann Scott Rastar</td>
<td>2006-08-10</td>
<td>7,086,089</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DAWN M. Hollingerworth Edwin L. Tann Scott Rastar</td>
<td>2006-06-03</td>
<td>7,383,577</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Michael Coobble Frank Iwanis John Kten</td>
<td>2011-03-29</td>
<td>7,971,610</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Robert F. Beach</td>
<td>2011-06-14</td>
<td>7,969,161</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Robert F. Beach</td>
<td>2008-03-25</td>
<td>7,439,365</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Robert F. Beach</td>
<td>2006-10-24</td>
<td>7,262,445</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Richard W. Volkman Willian O'Hanlon</td>
<td>2001-03-16</td>
<td>7,680,085</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gurpreet Singh</td>
<td>2000-10-10</td>
<td>6,894,816</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Invention Patent No. Issue Date</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Invention</td>
<td>Issue Date</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-----------</td>
<td>------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>System and method for automated placement of configuration of equipment, performance objects and for security</td>
<td>Roger R. S. Rapaport</td>
<td>2007-11-13</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Theodore S. Rapaport</td>
<td>2007-11-13</td>
<td>USA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ray Martrion, Jr.</td>
<td>2007-11-13</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>System and method for wireless access points</td>
<td>William Sakoda</td>
<td>2007-10-09</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel management system and method for wireless network</td>
<td>Jacob Sharyony</td>
<td>2005-08-03</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>System and method for detecting a wireless access point in a wireless network</td>
<td>Phillip Baltz</td>
<td>2005-10-09</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>System and method for detecting a wireless access point in a wireless network</td>
<td>Joseph Katz</td>
<td>2005-05-11</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication network synchronization for real time location system and method for wireless networks</td>
<td>David P. Goren</td>
<td>2004-06-27</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Local area networks and method for securing wireless networks</td>
<td>Scott Haslauar</td>
<td>2004-03-06</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Active defense against wireless attacks</td>
<td>Michael L. T. Lann</td>
<td>2004-02-17</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Defending a wireless law against attacks</td>
<td>Scott Haslauar</td>
<td>2004-02-17</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Michael L. T. Lann</td>
<td>2004-02-17</td>
<td>USA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>----------</td>
<td>------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Schedule A</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wireless LAN authentication based on location</td>
<td>Chris Zigelnik</td>
<td>2006-01-24</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>System and method for determining location of a wireless access point</td>
<td>Jacob Sharrow</td>
<td>2006-09-27</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bandwidth management in wireless networks</td>
<td>Jacob Sharrow</td>
<td>2001-02-23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Method for mobile unit location estimation in a wireless LAN</td>
<td>Chris Zigelnik</td>
<td>2009-06-09</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Back-up cell controller</td>
<td>John Kleen</td>
<td>2000-05-20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mobile unit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Method for tracking location of a mobile unit</td>
<td>David P. Goeren</td>
<td>2011-10-18</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Method for tracking location of a network site</td>
<td>Scott Harstarr</td>
<td>2008-09-09</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scanning for wireless communications system and methods for detecting</td>
<td>Issam Naddah Harafed</td>
<td>2009-10-04</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>System and methods for dynamic sensor</td>
<td>Scott Harstarr</td>
<td>2009-10-04</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methods and systems for wireless area networks and network site surveys</td>
<td>Scott Harstarr</td>
<td>2009-10-04</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wireless local area networks and extended service set identifiers in</td>
<td>John Kleen</td>
<td>2009-02-17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Method and system for multiple basic service sets in wireless local area networks</td>
<td>John Doefer</td>
<td>2009-02-17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Virtual wireless local area networks</td>
<td>Richard Montgomery</td>
<td>2009-02-17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Schedule A</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wireless LAN authentication based on location</td>
<td>Chris Zigelnik</td>
<td>2006-01-24</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>System and method for determining location of a wireless access point</td>
<td>Jacob Sharrow</td>
<td>2006-09-27</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bandwidth management in wireless networks</td>
<td>Jacob Sharrow</td>
<td>2001-02-23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Method for mobile unit location estimation in a wireless LAN</td>
<td>Chris Zigelnik</td>
<td>2009-06-09</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Back-up cell controller</td>
<td>John Kleen</td>
<td>2000-05-20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mobile unit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Method for tracking location of a mobile unit</td>
<td>David P. Goeren</td>
<td>2011-10-18</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Method for tracking location of a network site</td>
<td>Scott Harstarr</td>
<td>2008-09-09</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scanning for wireless communications system and methods for detecting</td>
<td>Issam Naddah Harafed</td>
<td>2009-10-04</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>System and methods for dynamic sensor</td>
<td>Scott Harstarr</td>
<td>2009-10-04</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methods and systems for wireless area networks and network site surveys</td>
<td>Scott Harstarr</td>
<td>2009-10-04</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wireless local area networks and extended service set identifiers in</td>
<td>John Kleen</td>
<td>2009-02-17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Method and system for multiple basic service sets in wireless local area networks</td>
<td>John Doefer</td>
<td>2009-02-17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Virtual wireless local area networks</td>
<td>Richard Montgomery</td>
<td>2009-02-17</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-----------------</td>
<td>------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AD-HOC RADIO NETWORK</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCHITECTURE FOR A WIRELESS NETWORK</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCESS POINTS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RECOGNIZABLE ARRAYS OF WIRELESS ACCESS POINTS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCESS POINTS AND WIRELESS SWITCHES PROTOCOL FOR COMMUNICATION BETWEEN DATA TO A WIRELESS ACCESS POINT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHOD AND SYSTEM FOR COMMUNICATING SYSTEMS WITH BANDWIDTH CONTRACTS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULAR ACCESS POINT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TITLE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VARIOUS ACCESS POINTS FOR PARTITIONING A vb. OVER A CLIENT CONNECTION</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHOD AND APPARATUS FOR CONFIGURING A vb. OVER A CLIENT CONNECTION</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Schedule A**

<table>
<thead>
<tr>
<th>Title</th>
<th>Inventor</th>
<th>Issue Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD-HOC RADIO NETWORK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCHITECTURE FOR A WIRELESS NETWORK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCESS POINTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RECOGNIZABLE ARRAYS OF WIRELESS ACCESS POINTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCESS POINTS AND WIRELESS SWITCHES PROTOCOL FOR COMMUNICATION BETWEEN DATA TO A WIRELESS ACCESS POINT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHOD AND SYSTEM FOR COMMUNICATING SYSTEMS WITH BANDWIDTH CONTRACTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULAR ACCESS POINT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TITLE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VARIOUS ACCESS POINTS FOR PARTITIONING A vb. OVER A CLIENT CONNECTION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHOD AND APPARATUS FOR CONFIGURING A vb. OVER A CLIENT CONNECTION</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Schedule A**

<table>
<thead>
<tr>
<th>Title</th>
<th>Inventor</th>
<th>Issue Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD-HOC RADIO NETWORK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCHITECTURE FOR A WIRELESS NETWORK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCESS POINTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RECOGNIZABLE ARRAYS OF WIRELESS ACCESS POINTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCESS POINTS AND WIRELESS SWITCHES PROTOCOL FOR COMMUNICATION BETWEEN DATA TO A WIRELESS ACCESS POINT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHOD AND SYSTEM FOR COMMUNICATING SYSTEMS WITH BANDWIDTH CONTRACTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULAR ACCESS POINT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TITLE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VARIOUS ACCESS POINTS FOR PARTITIONING A vb. OVER A CLIENT CONNECTION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHOD AND APPARATUS FOR CONFIGURING A vb. OVER A CLIENT CONNECTION</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Schedule A**

<table>
<thead>
<tr>
<th>Title</th>
<th>Inventor</th>
<th>Issue Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD-HOC RADIO NETWORK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCHITECTURE FOR A WIRELESS NETWORK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCESS POINTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RECOGNIZABLE ARRAYS OF WIRELESS ACCESS POINTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCESS POINTS AND WIRELESS SWITCHES PROTOCOL FOR COMMUNICATION BETWEEN DATA TO A WIRELESS ACCESS POINT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHOD AND SYSTEM FOR COMMUNICATING SYSTEMS WITH BANDWIDTH CONTRACTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULAR ACCESS POINT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TITLE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VARIOUS ACCESS POINTS FOR PARTITIONING A vb. OVER A CLIENT CONNECTION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHOD AND APPARATUS FOR CONFIGURING A vb. OVER A CLIENT CONNECTION</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Schedule A**

<table>
<thead>
<tr>
<th>Title</th>
<th>Inventor</th>
<th>Issue Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD-HOC RADIO NETWORK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCHITECTURE FOR A WIRELESS NETWORK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCESS POINTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RECOGNIZABLE ARRAYS OF WIRELESS ACCESS POINTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCESS POINTS AND WIRELESS SWITCHES PROTOCOL FOR COMMUNICATION BETWEEN DATA TO A WIRELESS ACCESS POINT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHOD AND SYSTEM FOR COMMUNICATING SYSTEMS WITH BANDWIDTH CONTRACTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULAR ACCESS POINT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TITLE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VARIOUS ACCESS POINTS FOR PARTITIONING A vb. OVER A CLIENT CONNECTION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHOD AND APPARATUS FOR CONFIGURING A vb. OVER A CLIENT CONNECTION</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Schedule A**

<table>
<thead>
<tr>
<th>Title</th>
<th>Inventor</th>
<th>Issue Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD-HOC RADIO NETWORK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCHITECTURE FOR A WIRELESS NETWORK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCESS POINTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RECOGNIZABLE ARRAYS OF WIRELESS ACCESS POINTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCESS POINTS AND WIRELESS SWITCHES PROTOCOL FOR COMMUNICATION BETWEEN DATA TO A WIRELESS ACCESS POINT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHOD AND SYSTEM FOR COMMUNICATING SYSTEMS WITH BANDWIDTH CONTRACTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULAR ACCESS POINT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TITLE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VARIOUS ACCESS POINTS FOR PARTITIONING A vb. OVER A CLIENT CONNECTION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHOD AND APPARATUS FOR CONFIGURING A vb. OVER A CLIENT CONNECTION</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Schedule A**

<table>
<thead>
<tr>
<th>Title</th>
<th>Inventor</th>
<th>Issue Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD-HOC RADIO NETWORK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCHITECTURE FOR A WIRELESS NETWORK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCESS POINTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RECOGNIZABLE ARRAYS OF WIRELESS ACCESS POINTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCESS POINTS AND WIRELESS SWITCHES PROTOCOL FOR COMMUNICATION BETWEEN DATA TO A WIRELESS ACCESS POINT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHOD AND SYSTEM FOR COMMUNICATING SYSTEMS WITH BANDWIDTH CONTRACTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULAR ACCESS POINT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TITLE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VARIOUS ACCESS POINTS FOR PARTITIONING A vb. OVER A CLIENT CONNECTION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHOD AND APPARATUS FOR CONFIGURING A vb. OVER A CLIENT CONNECTION</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Schedule A**

<table>
<thead>
<tr>
<th>Title</th>
<th>Inventor</th>
<th>Issue Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD-HOC RADIO NETWORK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARCHITECTURE FOR A WIRELESS NETWORK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCESS POINTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RECOGNIZABLE ARRAYS OF WIRELESS ACCESS POINTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCESS POINTS AND WIRELESS SWITCHES PROTOCOL FOR COMMUNICATION BETWEEN DATA TO A WIRELESS ACCESS POINT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHOD AND SYSTEM FOR COMMUNICATING SYSTEMS WITH BANDWIDTH CONTRACTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODULAR ACCESS POINT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TITLE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VARIOUS ACCESS POINTS FOR PARTITIONING A vb. OVER A CLIENT CONNECTION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>METHOD AND APPARATUS FOR CONFIGURING A vb. OVER A CLIENT CONNECTION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>---------------</td>
<td>------------</td>
</tr>
<tr>
<td>Ceiling Mount</td>
<td>Patrick J. Wallace</td>
<td>2009-11-24</td>
</tr>
<tr>
<td>Channel Communication</td>
<td>Diny M. Kavaguchi</td>
<td>2010-03-20</td>
</tr>
<tr>
<td>Method and System for Managing Multi-Activity on a Frequency Band</td>
<td>Kevin Preslel</td>
<td>2009-09-22</td>
</tr>
<tr>
<td>System and Method for Detecting Wireless Network</td>
<td>Syncing Zheng</td>
<td>2008-10-14</td>
</tr>
<tr>
<td>Wireless Network</td>
<td>Benarny T. Becker</td>
<td>2010-01-26</td>
</tr>
<tr>
<td>Ports in a Wireless Network</td>
<td>Ramesh Sekhar</td>
<td>2010-01-26</td>
</tr>
<tr>
<td>Time Division Multiplexing for Access Access Ports</td>
<td>Ramesh Sekhar</td>
<td>2009-06-10</td>
</tr>
<tr>
<td>Wireless Network System With Wireless Network</td>
<td>Jason D. Martinez</td>
<td>2009-03-05</td>
</tr>
<tr>
<td>Redundancy in Access Port Adoption</td>
<td>Praneet Batia</td>
<td>2009-03-03</td>
</tr>
<tr>
<td>Atomic V. Load Balancing and Method and System for Providing</td>
<td>Suval Harel</td>
<td>2009-03-03</td>
</tr>
<tr>
<td>Local Area Networks (WLAN)</td>
<td>Zelko Bucak</td>
<td>2009-03-03</td>
</tr>
<tr>
<td>Time Slot Reservation Scheme in Wireless Networks (VLAN)</td>
<td>Ramesh Sekhar</td>
<td>2009-03-03</td>
</tr>
<tr>
<td>Network (VLAN)</td>
<td></td>
<td>2008-10-28</td>
</tr>
<tr>
<td>Layer 3 Ranging in Wireless Local Area</td>
<td>Zelko Bucak</td>
<td>2009-09-27</td>
</tr>
<tr>
<td>Creating an Active Client List to Support Method and Apparatus for</td>
<td></td>
<td>2010-02-23</td>
</tr>
<tr>
<td>Network (VLAN)</td>
<td>Clint Chaplin</td>
<td>2009-09-29</td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-----------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Large Wireless Switch Networks</td>
<td>Ngargariah</td>
<td>2011-09-28</td>
</tr>
<tr>
<td>Mobility Beyond 3rd Generation</td>
<td>Mayfield</td>
<td>1998-07-01</td>
</tr>
<tr>
<td>Network Convergence Networking Systems and Methods for Wireless</td>
<td>An: S. Shiba</td>
<td>2001-12-12</td>
</tr>
<tr>
<td>Improved Performance in Poor Signal Transmission</td>
<td>Nishio</td>
<td>2002-05-11</td>
</tr>
<tr>
<td>Distributed Service Level to Wireless Systems and Methods for Providing</td>
<td>Poonet Batila</td>
<td>2002-05-11</td>
</tr>
<tr>
<td>Location in Wireless Switch Architecture Methods and Apparatus for Clusters</td>
<td>Malay Malik</td>
<td>2001-12-12</td>
</tr>
<tr>
<td>Utilitarian Analysis Methods and Apparatus for Wireless Network</td>
<td>An: P. Shinha</td>
<td>2002-05-11</td>
</tr>
<tr>
<td>Communication in a Wireless Network</td>
<td>An: P. Shinha</td>
<td>2002-05-11</td>
</tr>
<tr>
<td>Wireless Data Network</td>
<td>An: P. Shinha</td>
<td>2002-05-11</td>
</tr>
<tr>
<td>System and Methods for Data Communication</td>
<td>An: P. Shinha</td>
<td>2002-05-11</td>
</tr>
<tr>
<td>Title</td>
<td>Invention</td>
<td>Filing Date</td>
</tr>
<tr>
<td>-------</td>
<td>-----------</td>
<td>-------------</td>
</tr>
<tr>
<td>Optimize Channel Bandwidth for VoIP System and Method for Wlan Multi</td>
<td>Deanna S Hong</td>
<td>2012-03-13</td>
</tr>
<tr>
<td>Wireless Network Monitoring and Management, and Diagonal Algorithms For Systems and Methods for Generating,</td>
<td>William G Carnahan</td>
<td>2012-06-19</td>
</tr>
<tr>
<td>Enabling a Wireless Free Zone Systems and Methods for Protecting</td>
<td>Anil Sinha</td>
<td>2010-08-24</td>
</tr>
<tr>
<td>Architecture Cluster Management in Wireless Switch Systems and Methods for Centralized</td>
<td>Aliya Malik</td>
<td>2010-07-20</td>
</tr>
<tr>
<td>Pre-Authentication Across An 802.11 Pre-Authorization Protocol and WPA-Protected</td>
<td>Preet Bhatia</td>
<td>2011-10-11</td>
</tr>
<tr>
<td>Access Protection Equipment Protocol and WPA-Protected</td>
<td>Nicholas J Darlow Anil Sinha</td>
<td>2010-02-02</td>
</tr>
<tr>
<td>Access Points Loadless Roaming Via Bridging Between Wireless and Systems for Lossless Roaming with Wireless Bridging</td>
<td>Ramesh Sekhar</td>
<td>2010-11-02</td>
</tr>
<tr>
<td>Mobility Control, Failure Wireless Data Forwarding in the embodiment of a Multi-domain Switch</td>
<td>Udayan N Borakar Raam Nagarajan</td>
<td>2009-11-03</td>
</tr>
<tr>
<td>Mobility Domain Support Layer 3 Mobility Within A Network of Wireless Switches Redundancy and Standby Switching in Techniques for Hierarchical Wireless Switches</td>
<td>Udayan N Borakar Raam Nagarajan</td>
<td>2009-12-29</td>
</tr>
<tr>
<td>Implementing Layer 3 Mobility Domains Wireless Switch Network Architecture</td>
<td>Udayan N Borakar Raam Nagarajan</td>
<td>2011-03-29</td>
</tr>
<tr>
<td>Mobility Domain Implementing Mobility Areas Within A Wireless Switch Network Architecture</td>
<td>Dineetha Venkata</td>
<td>2011-06-14</td>
</tr>
</tbody>
</table>

**Schedule A**
<table>
<thead>
<tr>
<th>Title</th>
<th>Inventor</th>
<th>Issue Date</th>
<th>Patent No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Method for Aggregating Frames in a Wireless Communication Network</td>
<td>Manish Shrikala</td>
<td>2012-08-21</td>
<td>8249105</td>
</tr>
<tr>
<td>Status of a Node in a Mesh Network</td>
<td>Pranav Aggarwal</td>
<td>2010-09-07</td>
<td>7792110</td>
</tr>
<tr>
<td>Efficient in Wireless Networks Method and Apparatus for Split Policy</td>
<td>Manhender &amp; Vangalit</td>
<td>2012-05-22</td>
<td>8138121</td>
</tr>
<tr>
<td>Optimization of Displaced RF Coverage</td>
<td>Manhender &amp; Vangalit</td>
<td>2011-09-27</td>
<td>8021726</td>
</tr>
<tr>
<td>Method and Device for Routing Mesh Traversal</td>
<td>Chistophet L. Bear</td>
<td>2012-03-06</td>
<td>8130569</td>
</tr>
<tr>
<td>Across IP Subnets in a WLAN when Wireless Clients Layer 3 roam</td>
<td>Udayan N. Borkar</td>
<td>2011-02-08</td>
<td>7885233</td>
</tr>
<tr>
<td>Pooling Broadcast/Unicast Data</td>
<td>Ram Nagabalan</td>
<td>2011-06-14</td>
<td>7961725</td>
</tr>
<tr>
<td>Implementing a Virtual Private Network</td>
<td>Ram Nagabalan</td>
<td>2012-10-20</td>
<td>8309018</td>
</tr>
<tr>
<td>Megatunnel Access Multiple Access</td>
<td>Manish Shrikala</td>
<td>2010-11-02</td>
<td>7826862</td>
</tr>
<tr>
<td>Multiple Access Control (MAC) for TDMA/CDMA</td>
<td>Manish Shrikala</td>
<td>2012-11-27</td>
<td>8230321</td>
</tr>
<tr>
<td>Optimizing Positions of Traffic Slots in A Hybrid Time Division</td>
<td>Manish Shrikala</td>
<td>2011-03-22</td>
<td>792469</td>
</tr>
<tr>
<td>Wireless Infrastructure System and Method for Deployment of A</td>
<td>Avay Malik</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Schedule A**
<table>
<thead>
<tr>
<th>Title</th>
<th>Inventor</th>
<th>Issue Date</th>
<th>Patent No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A MULTI-HOP MESH NETWORK ENABLED ACCESS POINT TO A MESH PORTAL IN A WIRELESS NETWORK.</td>
<td>Paneet Batra</td>
<td>2013-12-17</td>
<td>8612772</td>
</tr>
<tr>
<td>WIRELESS NETWORK ENVIRONMENT SELF-ASSIGNMENT OF DEVICES AND METHODS AND APPARATUS FOR CHANNEL SELECTION IN A WIRELESS COMMUNICATION SYSTEM.</td>
<td>Edvard Li</td>
<td>2012-05-01</td>
<td>87170050</td>
</tr>
<tr>
<td>WIRELESS DEVICES IN A WIRELESS NETWORK SELF-COMMUNICATION OF WIRELESS ACCESS METHODS AND APPARATUS FOR CHANNEL SELECTION IN A WIRELESS COMMUNICATION SYSTEM.</td>
<td>Steven Zoullu, Oliver Pavian, Rurik Veenstra, Sameh Hanna, Keith 'Gerbber, Hiroshi Cossian</td>
<td>2013-11-19</td>
<td>8888648</td>
</tr>
<tr>
<td>REMAINING COVERAGE-HOLE DETECTION AND SELF-MOTIONING OF WIRELESS NETWORKS METHOD AND SYSTEM FOR TURNING AND SELF-MOTIONING OF WIRELESS SWITCHES ACCESS PORT ADAPTATION TO MULTIPLE WIRELESS SWITCHES.</td>
<td>Edvard Li</td>
<td>2012-03-20</td>
<td>8139643</td>
</tr>
<tr>
<td>BASED ADOPTION OF AN ACCESS DEVICE METHODS AND APPARATUS FOR PRIOGRAPHY-PRIORITY.</td>
<td>Venkatesh Kannan, Sohini Ahlawat, Vivek Ramesh, Shruti Velayudhan, Karthik Raman, Bala Sundaram</td>
<td>2011-05-21</td>
<td>7966010</td>
</tr>
<tr>
<td>POWER OVER ETHERNET CLASS CAPABILITIES METHODS AND SYSTEM FOR DETERMINING NETWORK SWITCH MODULES WIRELESS SWITCH WITH VIRTUAL WIRELESS NETWORK LOAD ACOSS DEVICES IN A WIRELESS METHODS AND APPARATUS FOR BALANCING POWER OVER ETHERNET COMBINER.</td>
<td>Pat T. Wallace, Julie Phan, Ed W. Gehr</td>
<td>2012-07-17</td>
<td>8226124</td>
</tr>
<tr>
<td></td>
<td>Subhrajyoti Bhr</td>
<td>2013-04-18</td>
<td>8112259</td>
</tr>
<tr>
<td></td>
<td>Julie Phan</td>
<td>2011-07-21</td>
<td>8226116</td>
</tr>
<tr>
<td></td>
<td>Ahlu E. L. Joshi</td>
<td>2012-07-17</td>
<td>8226732</td>
</tr>
<tr>
<td></td>
<td>Eric T. Tucker, Julie Phan</td>
<td>2011-10-11</td>
<td>8231613</td>
</tr>
<tr>
<td></td>
<td>Subhrajyoti Bhr</td>
<td>2013-05-27</td>
<td>7966010</td>
</tr>
<tr>
<td></td>
<td>733573</td>
<td>Issue Date</td>
<td>733573</td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
<td>Patent No.</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-------------------</td>
<td>------------</td>
<td>------------</td>
</tr>
<tr>
<td>ATTACK DETECTION SYSTEMS AND METHODS</td>
<td>NARSON P ORGEIT</td>
<td>2014-06-17</td>
<td>875690</td>
</tr>
<tr>
<td>EXTENSIBLE AUTHENTICATION PROTOCOL</td>
<td>EDWARDO LIL</td>
<td>2013-10-28</td>
<td>9471735</td>
</tr>
<tr>
<td>BALANCING IN A WIRELESS NETWORK</td>
<td>JUILE HAHN</td>
<td>2012-07-17</td>
<td>8223673</td>
</tr>
<tr>
<td>SYSTEMS AND METHODS FOR DYNAMIC LOAD</td>
<td>NHA N GEEN</td>
<td>2012-07-17</td>
<td>8223673</td>
</tr>
<tr>
<td>RADIO MODULES</td>
<td>VHN-H PHONCN L ET</td>
<td></td>
<td>2012-07-17</td>
</tr>
<tr>
<td>SELECTED TO IMPROVE RESOLUTIONALITY OF A MODULING SYSTEM CLOCKS BASED ON</td>
<td>ED W GEER</td>
<td>2012-07-17</td>
<td>8223673</td>
</tr>
<tr>
<td>SENSING</td>
<td>MICHAEL YHNE</td>
<td>2014-08-08</td>
<td>6694624</td>
</tr>
<tr>
<td>WIRELESS LOCAL AREA NETWORK AND METHODS FOR CONCURRENT-</td>
<td>ANY L SINH</td>
<td>2014-08-08</td>
<td>6694624</td>
</tr>
<tr>
<td>POWER INFRANCE OR THE OPERATING COST OF POWER INFRANCE OR THE OPERATING COST OF</td>
<td>RAMNIS SHKULYA</td>
<td>2013-02-05</td>
<td>9003209</td>
</tr>
<tr>
<td>WIRELESS NETWORK BY EXPLORING LOW POWER LOAD</td>
<td>ANYASH JOHNS</td>
<td>2013-02-05</td>
<td>9003209</td>
</tr>
<tr>
<td>MULTIPLE OUTPUT (MIMO) NETWORK</td>
<td>HPHK BEWSSINN</td>
<td>2014-08-05</td>
<td>8798044</td>
</tr>
<tr>
<td>AND/OR QUDR INTERVAL IN A MULTIPLE-INPUT AND/or QUADR INTERVAL IN A MULTIPLE-INPUT</td>
<td>PANKA AGAWAL</td>
<td>2014-08-05</td>
<td>8798044</td>
</tr>
<tr>
<td>WIRELESS LOCAL AREA NETWORK</td>
<td>RAMN NAGARJAN</td>
<td>2011-10-11</td>
<td>8033469</td>
</tr>
<tr>
<td>LOCALIZING INFORMATION IN A WIRELESS LOCAL NETWORK</td>
<td>PENNET BATLIA</td>
<td>2012-02-21</td>
<td>8121122</td>
</tr>
<tr>
<td>FROM MISSION LOCALIZATION IN A WIRELESS LOCAL NETWORK</td>
<td>PENNET BATLIA</td>
<td>2012-02-21</td>
<td>8121122</td>
</tr>
<tr>
<td>METHODS AND APPARATUS FOR RECEIVING IMPLEMENTATION OF A</td>
<td>RAHEL NVALAVERL</td>
<td>2012-10-02</td>
<td>8281144</td>
</tr>
<tr>
<td>TERMINATION POINTS</td>
<td>BLMCO R BLC</td>
<td>2012-10-02</td>
<td>8281144</td>
</tr>
<tr>
<td>METHODS AND APPARATUS FOR LOCALIZING A WIRELESS LOCAL NETWORK</td>
<td>TEOVR MVRNCANDA</td>
<td>2012-03-01</td>
<td>8171359</td>
</tr>
<tr>
<td>METHODS AND APPARATUS FOR LOCALIZING A WIRELESS LOCAL NETWORK</td>
<td>KFTHL T CEBRE</td>
<td>2012-03-01</td>
<td>8171359</td>
</tr>
<tr>
<td>METHODS AND APPARATUS FOR LOCALIZING A WIRELESS LOCAL NETWORK</td>
<td>CHARLESBARKER CHS</td>
<td>2012-03-01</td>
<td>8171359</td>
</tr>
<tr>
<td>METHODS AND APPARATUS FOR LOCALIZING A WIRELESS LOCAL NETWORK</td>
<td>GUERNAL STRTN</td>
<td>2012-03-01</td>
<td>8171359</td>
</tr>
<tr>
<td>METHODS FOR ADAPTIVE BEACONING</td>
<td>PENNET BATLIA</td>
<td>2013-03-05</td>
<td>8391169</td>
</tr>
<tr>
<td>MOBILE DEVICE IN A SLEEP MODE</td>
<td>PENNET BATLIA</td>
<td>2013-03-05</td>
<td>8391169</td>
</tr>
</tbody>
</table>

**Schedule A**
<table>
<thead>
<tr>
<th>Title</th>
<th>Inventor</th>
<th>Issue Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADAPTIVE DATA RATE LIMITER IN A WIRELESS VIRTUAL LOCAL AREA NETWORKS</td>
<td>VAMSAL KRISHNA BANJANI</td>
<td>2014-06-17</td>
</tr>
<tr>
<td>HYBRID BROADCAST-PACKET REPETITION FOR COMMUNICATION NETWORKS</td>
<td>JASON YU HILTON</td>
<td>2014-05-27</td>
</tr>
<tr>
<td>SECURITIY DISTINGUISHED DEVICES IN A COMMUNICATION NETWORK</td>
<td>ROBERT E. BEACH</td>
<td>2014-04-22</td>
</tr>
<tr>
<td>MOBILE STEERING IN A WIRELESS NETWORK</td>
<td>HARIR SHARMA</td>
<td>2013-11-26</td>
</tr>
<tr>
<td>ADDRESS RESOLUTION PROTOCOL CACHE IN A DISTRIBUTION OF UNAUTHORIZED CHANGES TO AN NETWORK POIN</td>
<td>NICOLAS S YADE</td>
<td>2013-07-23</td>
</tr>
<tr>
<td>WIRELESS COMMUNICATION NETWORK SPOOFING PREVENTION OF DATA IN A WIRELESS COMMUNICATION NETWORK</td>
<td>RAMPRASAD VAPE</td>
<td>2013-06-10</td>
</tr>
<tr>
<td>WIRELESS COMMUNICATION NETWORK</td>
<td>PRADEEP YADAV</td>
<td>2013-06-10</td>
</tr>
<tr>
<td>WIRELESS COMMUNICATION NETWORK</td>
<td>VINOD KUMAR</td>
<td>2013-03-05</td>
</tr>
<tr>
<td>COMMUNICATION NETWORK</td>
<td>SENTHILRAJ SHANMUGADHIRE</td>
<td>2013-03-05</td>
</tr>
<tr>
<td>COMMUNICATION NETWORK</td>
<td>ANVINO KUMAR</td>
<td>2013-03-05</td>
</tr>
<tr>
<td>COMMUNICATION NETWORK</td>
<td>RAJIV SINH</td>
<td>2013-03-05</td>
</tr>
<tr>
<td>COMMUNICATION NETWORK</td>
<td>RAJIV SINH</td>
<td>2013-03-05</td>
</tr>
<tr>
<td>COMMUNICATION NETWORK</td>
<td>RAJIV SINH</td>
<td>2013-03-05</td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Issue Date</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Network Usage Intervals Method and Apparatus for Coexisting</td>
<td>Sohan M. Rana</td>
<td>2014-01-28</td>
</tr>
<tr>
<td>Access Point Power Usage During Low Traffic Load</td>
<td></td>
<td></td>
</tr>
<tr>
<td>wireless communication system</td>
<td>Keith D. Bray</td>
<td>2012-06-21</td>
</tr>
<tr>
<td>Context-aware multiple-input and</td>
<td>Charles Burton</td>
<td>2013-06-04</td>
</tr>
<tr>
<td>device using a wireless local area</td>
<td>Ramesh Balla</td>
<td>2015-11-24</td>
</tr>
<tr>
<td>validating presence of a communication network</td>
<td>Rahul Sinha</td>
<td>2013-06-24</td>
</tr>
<tr>
<td>traffic for a communication network</td>
<td>Reu Kran</td>
<td>2013-06-13</td>
</tr>
<tr>
<td>service provider network and wireless</td>
<td>Senthilra A.</td>
<td>2013-06-13</td>
</tr>
<tr>
<td>on-demand access tunnel between</td>
<td>A. A. Maruthi</td>
<td>2014-10-21</td>
</tr>
<tr>
<td>adaptive standby access in a local area</td>
<td>Tushar Maruthi</td>
<td>2014-10-21</td>
</tr>
<tr>
<td>communication network</td>
<td>Reu Kran</td>
<td>2013-06-13</td>
</tr>
<tr>
<td>radio frequency barrier in a wireless</td>
<td>Deanna S. Honga</td>
<td>2013-10-06</td>
</tr>
<tr>
<td>communication network</td>
<td>Somesh Agrawal</td>
<td>2013-06-04</td>
</tr>
<tr>
<td>distributed firewalling in a wireless</td>
<td>Jeelana Basha Pooja</td>
<td>2013-08-20</td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Filing Date</td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>----------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Multiple Antenna Systems and Methods</td>
<td>Burgess Taylor</td>
<td>2/14/00-23</td>
</tr>
<tr>
<td>Among Multiple Antenna and Multiple</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication Network</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Self-Testing of Services in an Access Point</td>
<td>Rau Rikan</td>
<td>7/11/10-15</td>
</tr>
<tr>
<td>Network</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interconnected Topology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forwarding Inter-Switch Connection</td>
<td>Stephen R. Hardock</td>
<td>2/2-Aug</td>
</tr>
<tr>
<td>Private LAN Services</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection Switching Access To Virtual</td>
<td>John L. Stokes</td>
<td>2/3-June</td>
</tr>
<tr>
<td>Dynamic ATM Tagging VLANs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methods, Systems, and Apparatuses For</td>
<td>Donald B. Grosser</td>
<td>1/3-June</td>
</tr>
<tr>
<td>Group</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Traffic Minimizing</td>
<td>Jeffrey Allen Ford</td>
<td>11-December</td>
</tr>
<tr>
<td>Device and Related Method For Dynamic</td>
<td>David Kendal</td>
<td>1/4/9222481</td>
</tr>
<tr>
<td>DPA, Packet Forwarding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Application</td>
<td>Donald B. Grosser</td>
<td>2/2-Sep</td>
</tr>
<tr>
<td>Network Monitoring and Control Based</td>
<td>Markus Nispe</td>
<td>1-September</td>
</tr>
<tr>
<td>System and Related Method For</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Information</td>
<td>Nick G. Suzuki</td>
<td>12-February</td>
</tr>
<tr>
<td>Network Element with Network-Wide</td>
<td>Birutka Kharagharia</td>
<td>12-February</td>
</tr>
<tr>
<td>Bandwidth on Dynamic and SD Networks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multiple Nodes</td>
<td>Hagerty, William</td>
<td>12-May</td>
</tr>
<tr>
<td>Reducing Numbers of Root Comparisons</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Values for Rapid Tree Traversal and</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Node Comparison Paths and Cut</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Generating a Tree Structure With</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Readable Media For</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methods, Systems, and Non-Transitory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inventor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Filing Date</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Publication Date</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Application No.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Inventor</td>
<td>Application No.</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>-------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>ACCESS POINT CONTROL FRAMEWORK FOR ACCESS POINT DISCOVERY</td>
<td>Rafee Rashid, Mishra</td>
<td>85/214642/2019-20</td>
</tr>
<tr>
<td>anden Prasad K. Mannathu, Sanjeev R. Kadam, Sundaresh S. Sundaram</td>
<td>USA</td>
<td></td>
</tr>
<tr>
<td>INTERWORKING AND Wi-FI LOCAL AREA NETWORK COMMUNICATIONS PERSONALIZATION AREA NETWORK SYSTEMS AND METHODS FOR VISIBLE LIGHT</td>
<td>Sunil V. Chavan, Radhia S. Shirode, Joseph H. Joseph, Rajesh K. Kodia</td>
<td>85/223752/2019-20</td>
</tr>
<tr>
<td>BASED MANAGEMENT OF Wi-Fi INFRASTRUCTURE AND PROVISIONING ACCESS POINT USING GROUP многоуровневое группирования и переходные системы</td>
<td>Sanjeev R. Kadam,</td>
<td>85/223276/2019-20</td>
</tr>
<tr>
<td>PERIPHERAL LOCATION TRACKING OF CLIENT WITH BASED LOCALIZATION TRACKING OF CLIENT IMPACT OF HANDOVERS ON THE ACCURACY OF PREVIOUSLY ACQUIRED THE TITLE SYSTEMS AND METHODS FOR AUGMENTING THE NETWORK CONTROL AND ACCESS POINT VISIBLE LIGHT COMMUNICATIONS PERSONAL AREA NETWORK</td>
<td>Sunil V. Chavan, Prasad K. Mannathu, Sundaresh S. Sundaram</td>
<td>85/444101/2019-20</td>
</tr>
</tbody>
</table>
### Schedule B

<table>
<thead>
<tr>
<th>Trademark</th>
<th>Company</th>
<th>Filing Date</th>
<th>Registration No.</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUMMIT</td>
<td>Extreme Networks, Inc.</td>
<td>0000/11/70</td>
<td>236596</td>
<td>United States</td>
</tr>
<tr>
<td>REACHXIT</td>
<td>Extreme Networks, Inc.</td>
<td>0102/10/90</td>
<td>379681</td>
<td>United States</td>
</tr>
<tr>
<td>R Undercore &amp; Design</td>
<td>Extreme Networks, Inc.</td>
<td>11/2/02/41</td>
<td>407424</td>
<td>United States</td>
</tr>
<tr>
<td>Purple Network Switch Design</td>
<td>Extreme Networks, Inc.</td>
<td>0000/9/1/60</td>
<td>238485</td>
<td>United States</td>
</tr>
<tr>
<td>EXTREMEIOS</td>
<td>Extreme Networks, Inc.</td>
<td>0000/5/20</td>
<td>379396</td>
<td>United States</td>
</tr>
<tr>
<td>EXTREMEWORKS</td>
<td>Extreme Networks, Inc.</td>
<td>03/1/2/02</td>
<td>234968</td>
<td>United States</td>
</tr>
<tr>
<td>EXTREME NETWORKS</td>
<td>Extreme Networks, Inc.</td>
<td>0102/1/80</td>
<td>384062</td>
<td>United States</td>
</tr>
<tr>
<td>EXTREME NETWORKS Sbilded</td>
<td>Extreme Networks, Inc.</td>
<td>05/00/1/5</td>
<td>224328</td>
<td>United States</td>
</tr>
<tr>
<td>E Logo EXTREME NETWORKS Sbilded</td>
<td>Extreme Networks, Inc.</td>
<td>12/22/10/5</td>
<td>487497</td>
<td>United States</td>
</tr>
<tr>
<td>E Logo</td>
<td>Extreme Networks, Inc.</td>
<td>10/22/10/5</td>
<td>484144</td>
<td>United States</td>
</tr>
<tr>
<td>BLACK DIAMOND</td>
<td>Extreme Networks, Inc.</td>
<td>09/28/1999</td>
<td>228138</td>
<td>United States</td>
</tr>
<tr>
<td>Mark</td>
<td>Registered Owner</td>
<td></td>
<td>Registration No.</td>
<td></td>
</tr>
</tbody>
</table>

**US Trademarks of the Claimant**

**EXTREME NETWORKS, INC.**

To the Amended and Related Patent and Trademark Security Agreement

**SCHEDULE B**
<table>
<thead>
<tr>
<th>Mark</th>
<th>Registered Owner</th>
<th>Registration No</th>
<th>Registration Date</th>
<th>Jurisdiction</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIRELESS NETWORKER</td>
<td>Extreme Networks, Inc.</td>
<td>7631439</td>
<td>9/18/2001</td>
<td>United States</td>
</tr>
<tr>
<td>SPECTRUM 24</td>
<td>Extreme Networks, Inc.</td>
<td>7460015</td>
<td>7/9/2010</td>
<td>United States</td>
</tr>
<tr>
<td>AIRDEFENSE</td>
<td>Extreme Networks, Inc.</td>
<td>8501190</td>
<td>10/20/2015</td>
<td>United States</td>
</tr>
<tr>
<td>WiFi COACH</td>
<td>Extreme Networks, Inc.</td>
<td>483734</td>
<td></td>
<td>United States</td>
</tr>
</tbody>
</table>

Pending U.S. Trademark Applications of the Grantor: None.