

## PATENT ASSIGNMENT COVER SHEET

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|-----------------------------------|--------------------------------------|-----------------------|
| <b>SUBMISSION TYPE:</b>           | NEW ASSIGNMENT                       |                       |
| <b>NATURE OF CONVEYANCE:</b>      | ASSIGNMENT                           |                       |
| <b>CONVEYING PARTY DATA</b>       |                                      |                       |
| <b>Name</b>                       |                                      | <b>Execution Date</b> |
| JINGPIN TECHNOLOGIES, LLC         |                                      | 11/26/2019            |
| <b>RECEIVING PARTY DATA</b>       |                                      |                       |
| <b>Name:</b>                      | INTELLECTUAL VENTURES ASSETS 161 LLC |                       |
| <b>Street Address:</b>            | 251 LITTLE FALLS DRIVE               |                       |
| <b>City:</b>                      | WILMINGTON                           |                       |
| <b>State/Country:</b>             | DELAWARE                             |                       |
| <b>Postal Code:</b>               | 19808                                |                       |
| <b>PROPERTY NUMBERS Total: 42</b> |                                      |                       |
| <b>Property Type</b>              | <b>Number</b>                        |                       |
| Patent Number:                    | 5852544                              |                       |
| Patent Number:                    | 5870281                              |                       |
| Patent Number:                    | 5872515                              |                       |
| Patent Number:                    | 5889841                              |                       |
| Patent Number:                    | 5900026                              |                       |
| Patent Number:                    | 5909555                              |                       |
| Patent Number:                    | 5911079                              |                       |
| Patent Number:                    | 5937433                              |                       |
| Patent Number:                    | 5970234                              |                       |
| Patent Number:                    | 5995593                              |                       |
| Patent Number:                    | 5997323                              |                       |
| Patent Number:                    | 6000023                              |                       |
| Patent Number:                    | 6003145                              |                       |
| Patent Number:                    | 6005769                              |                       |
| Patent Number:                    | 6006109                              |                       |
| Patent Number:                    | 6034867                              |                       |
| Patent Number:                    | 6061460                              |                       |
| Patent Number:                    | 6067625                              |                       |
| Patent Number:                    | 6079016                              |                       |
| Patent Number:                    | 6123133                              |                       |

PATENT

| Property Type  | Number  |
|----------------|---------|
| Patent Number: | 6128117 |
| Patent Number: | 6134376 |
| Patent Number: | 6163450 |
| Patent Number: | 6170070 |
| Patent Number: | 6173398 |
| Patent Number: | 6185690 |
| Patent Number: | 6202809 |
| Patent Number: | 6216189 |
| Patent Number: | 6256680 |
| Patent Number: | 6272006 |
| Patent Number: | 6275215 |
| Patent Number: | 6340988 |
| Patent Number: | 6418541 |
| Patent Number: | 6442712 |
| Patent Number: | 6750782 |
| Patent Number: | 5974554 |
| Patent Number: | 5987533 |
| Patent Number: | 6044473 |
| Patent Number: | 6101086 |
| Patent Number: | 6115883 |
| Patent Number: | 6124879 |
| Patent Number: | 6208504 |

#### CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | 11206-001GEN           |
| NAME OF SUBMITTER:      | LAWRENCE A. AARONSON   |
| SIGNATURE:              | /Lawrence A. Aaronson/ |
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Total Attachments: 32

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## ASSIGNMENT OF RIGHTS IN CERTAIN ASSETS

For good and valuable consideration, the receipt of which is hereby acknowledged, Jingpin Technologies, LLC, a Delaware limited liability company, having an address at 251 Little Falls Drive, Wilmington, DE 19808 ("*Assignor*"), does hereby sell, assign, transfer, and convey unto Intellectual Ventures Assets 161 LLC, a Delaware limited liability company, having an address at 251 Little Falls Drive, Wilmington, DE 19808 ("*Assignee*"), or its designees, the right, title, and interest in and to any and all of the following provisional patent applications, patent applications, patents, and other governmental grants or issuances of any kind (the "*Certain Assets*");

| <u>Patent or Application<br/>No.</u> | <u>Country</u> | <u>Grant Date<br/>Filing Date</u> | <u>Title of Patent and First Named Inventor</u>                                                                     |
|--------------------------------------|----------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 5852544<br>(08/840588)               | US             | 12/22/1998<br>(4/22/1997)         | Power Connection Bracket For Computer System And Computer System Having The Same<br><br>Ju-Hun Lee                  |
| TW1111999<br>(TW086102768)           | TW             | 2/1/2000<br>(3/6/1997)            | Bracket For Computer System<br><br>Lee Ju-Hun                                                                       |
| KR10-0190599<br>(KR10-1996-0012200)  | KR             | 1/21/1999<br>(4/22/1996)          | A Bracket Device<br><br>Ju-Hun Lee                                                                                  |
| 5870281<br>(08/902130)               | US             | 2/9/1999<br>(7/30/1997)           | Locking Portable Computer<br><br>Tae-Yong Kim                                                                       |
| KR10-0190843<br>(KR10-1996-0031981)  | KR             | 1/21/1999<br>(7/31/1996)          | A Portable Computer<br><br>Tae-Yong Kim                                                                             |
| 5872515<br>(08/814654)               | US             | 2/16/1999<br>(3/11/1997)          | Laptop Computer With An Anti-Theft Alarm Function And A Method Of Controlling The Same<br><br>Ho-Jin Ha             |
| (KR10-1996-0007580)                  | KR             | (3/20/1996)                       | A Compact Personal Computer With An Anti-Theft Alarm Function And A Method Of Controlling The Same<br><br>Ho-Jin Ha |

| <u>Patent or Application<br/>No.</u> | <u>Country</u> | <u>Grant Date<br/>Filing Date</u> | <u>Title of Patent and First Named Inventor</u>                                                                                                               |
|--------------------------------------|----------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| KR10-0175284<br>(KR10-1996-0030676)  | KR             | 11/9/1998<br>(7/26/1996)          | A Compact Personal Computer With An Anti-Theft Alarm Function And A Method Of Controlling The Same<br><br>Ho-Jin Ha                                           |
| JP3979693<br>(JP09-020085)           | JP             | 7/6/2007<br>(1/17/1997)           | Modem<br><br>Shin, Seong-Kee                                                                                                                                  |
| 5889841<br>(08/785021)               | US             | 3/30/1999<br>(1/17/1997)          | Modem With Noise Eliminating Circuit<br><br>Seong-Kee Shin                                                                                                    |
| KR10-0221086<br>(KR10-1996-0000817)  | KR             | 6/25/1999<br>(1/17/1996)          | Modem With Noise Preventing Circuit<br><br>Sung-Ki Shin                                                                                                       |
| JP3799130<br>(JP09-130643)           | JP             | 4/28/2006<br>(5/21/1997)          | Power-Saving Mode Switching Method Of Computer Having Function For Saving Power During Use Of Network<br><br>Ryu, Chang-Hyun                                  |
| 5900026<br>(08/861324)               | US             | 5/4/1999<br>(5/21/1997)           | Method And Apparatus For Setting A Computer Coupled To A Network Into A Power Saving Mode<br><br>Chang-Hyun Ryu                                               |
| CNZL97114827.9<br>(CN97114827.9)     | CN             | 12/3/2003<br>(5/21/1997)          | Method For Setting Computer Having Power Saving Function Into Power Saving Mode When Using Network<br><br>Ryu Chang-Hyun                                      |
| KR10-0245199<br>(KR10-1996-0017222)  | KR             | 11/26/1999<br>(5/21/1996)         | Method For Setting A Computer Having A Power Saving Function Into A Power Saving Mode When Using A Network<br><br>Yu Chang Hyun                               |
| 5909555<br>(08/789480)               | US             | 6/1/1999<br>(1/27/1997)           | Method And System For Supporting Data Communication Between Personal Computers Using Audio Drivers, Microphone Jacks, And Telephone Jacks<br><br>Sung-Ho Jung |

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|--------------------------------------|----------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| KR10-0198879<br>(KR10-1996-0001752)  | KR             | 3/3/1999<br>(1/26/1996)           | Apparatus And Method For Computer<br>Communication Using Audio Function<br><br>Seong-Ho Jung                                                     |
| EP0803793<br>(EP97302871.5)          | EP             | 6/18/2003<br>(4/25/1997)          | A Computer System Having A Parallel Port<br>As A Power Supply For Its Peripheral Device<br>And An Extension Device Thereof<br><br>Yang Sung Dong |
| JP3682147<br>(JP09-111211)           | JP             | 5/27/2005<br>(4/28/1997)          | Computer System And Its Extending Device<br><br>Yang Sung Dong                                                                                   |
| 5911079<br>(08/840631)               | US             | 6/8/1999<br>(4/25/1997)           | Computer System Having A Parallel Port For<br>Its Peripheral Device And An Expansion<br>Device Thereof<br><br>Sung-Dong Yang                     |
| DE69722848.7<br>(DE69722848.7)       | DE             | 6/18/2003<br>(4/25/1997)          | A Computer System Having A Parallel Port<br>As A Power Supply For Its Peripheral Device<br>And An Extension Device Thereof<br><br>Yang Sung Dong |
| IT0803793<br>(IT97302871.5)          | IT             | 6/18/2003<br>(4/25/1997)          | A Computer System Having A Parallel Port<br>As A Power Supply For Its Peripheral Device<br>And An Extension Device Thereof<br><br>Yang Sung Dong |
| FR0803793<br>(FR97302871.5)          | FR             | 6/18/2003<br>(4/25/1997)          | A Computer System Having A Parallel Port<br>As A Power Supply For Its Peripheral Device<br>And An Extension Device Thereof<br><br>Yang Sung Dong |
| GB0803793<br>(GB97302871.5)          | GB             | 6/18/2003<br>(4/25/1997)          | A Computer System Having A Parallel Port<br>As A Power Supply For Its Peripheral Device<br>And An Extension Device Thereof<br><br>Yang Sung Dong |
| (KR20-1997-0000147)                  | KR             | (1/8/1997)                        | Computer System Having A Parallel Port As<br>A Power Supply For Its Peripheral Device<br>And An Extension Device Thereof                         |

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|--------------------------------------|----------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      |                |                                   | Unable To Verify                                                                                                                               |
| CNZL97104269.1<br>(CN97104269.1)     | CN             | 6/30/2004<br>(4/25/1997)          | Computer Capable Of Power Supply To<br>Peripheral Equipment Using Concurrent<br>Terminal<br><br>Yang Sung-Dong                                 |
| KR10-0207321<br>(KR10-1996-0013117)  | KR             | 4/12/1999<br>(4/26/1996)          | Computer Having An Output Port Capable Of<br>Power Supply<br><br>Yang Sung Dong                                                                |
| (JP09-107206)                        | JP             | (4/24/1997)                       | Hard Disk Cache Control Method<br><br>Lee, Kil-Moo                                                                                             |
| 5937433<br>(08/842398)               | US             | 8/10/1999<br>(4/24/1997)          | Method Of Controlling Hard Disk Cache To<br>Reduce Power Consumption Of Hard Disk<br>Drive Used In Battery Powered Computer<br><br>Kil-Moo Lee |
| KR10-0174711<br>(KR10-1996-0012742)  | KR             | 11/5/1998<br>(4/24/1996)          | Method Of Controlling Hard Disk Cache<br><br>Kil-Moo Lee                                                                                       |
| 5970234<br>(08/792424)               | US             | 10/19/1999<br>(1/30/1997)         | Pci Bus Arbiter And A Bus Control System<br>Having The Same<br><br>Sung-Kon Jin                                                                |
| KR10-0167726<br>(KR10-1996-0002136)  | KR             | 9/29/1998<br>(1/30/1996)          | Pci Bus Arbiter And A Bus Control System<br>Having The Same<br><br>Sung-Kon Jin                                                                |
| 5995593<br>(08/841604)               | US             | 11/30/1999<br>(4/30/1997)         | Wire/Wireless Communication System For<br>Communicating Between Two Locations<br>Using Telephone Network<br><br>Han-Jin Cho                    |
| KR10-0174485<br>(KR10-1996-0013658)  | KR             | 11/4/1998<br>(4/30/1996)          | Wire/Wireless Communication System<br>Between Two Locations Using Telephone<br>Network<br><br>Unable To Verify                                 |

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|--------------------------------------|----------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 5997323<br>(09/059393)               | US             | 12/7/1999<br>(4/14/1998)          | Device For Connecting A Portable Computer<br>To A Docking Station<br><br>Jae-Sam Youn                                   |
| KR10-0233027<br>(KR10-1997-0013725)  | KR             | 9/9/1999<br>(4/15/1997)           | Device For Portable Computer Docking<br>Stations And Docking Station With The Same<br><br>Jae-Sam Youn                  |
| (EP97304206.2)                       | EP             | (6/16/1997)                       | Method For Partitioning Storage Regions On<br>Hard Disk And Computer System Adapted To<br>The Same<br><br>YOUNG-IL JEON |
| JP3691214<br>(JP09-194534)           | JP             | 6/24/2005<br>(7/18/1997)          | Hard Disk Division Method And Computer<br>System Test Method Using The Division<br>Method<br><br>Young-Il Jeon          |
| TWI113417<br>(TW086107702)           | TW             | 3/21/2000<br>(6/4/1997)           | Method For Partitioning Storage Regions On<br>Hard Disk And Computer System Adapted To<br>The Same<br><br>YOUNG-IL JEON |
| 6000023<br>(08/897252)               | US             | 12/7/1999<br>(7/18/1997)          | Method For Partitioning Storage Regions On<br>Hard Disk And Computer System Adapted To<br>The Same<br><br>Young-Il Jeon |
| KR10-0205539<br>(KR10-1996-0029398)  | KR             | 4/2/1999<br>(7/19/1996)           | Method For Partitioning Storage Regions On<br>Hard Disk And Computer System Adapted To<br>The Same<br><br>Young-Il Jeon |
| JP3753835<br>(JP09-115568)           | JP             | 12/22/2005<br>(5/6/1997)          | Device And Method For Monitoring<br>Computer System<br><br>Hong, Bum-Ryong                                              |
| 6003145<br>(08/852071)               | US             | 12/14/1999<br>(5/6/1997)          | Computer Monitoring Apparatus And A<br>Method Of Controlling The Same                                                   |



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|--------------------------------------|----------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      |                |                                   | Bum- Ryong Hong                                                                                                                                                                   |
| KR10-0221027<br>(KR10-1996-0014681)  | KR             | 6/24/1999<br>(5/6/1996)           | A Computer Monitoring Apparatus And A<br>Method Of Controlling The Same<br><br>Hong Bom Ryong                                                                                     |
| (JP09-339190)                        | JP             | (12/9/1997)                       | Automatic Power Source Interrupting Device<br>For Computer System<br><br>Cho, Duk-Soon                                                                                            |
| TWM205573<br>(TW090210853)           | TW             | 6/1/2003<br>(12/3/1997)           | Computer Having A Function Of Auto Power<br>Off Before Connecting With An Expansion<br>System<br><br>Cho Duk-Soon                                                                 |
| 6005769<br>(08/987857)               | US             | 12/21/1999<br>(12/9/1997)         | A Computer And Computer System Having A<br>Function Of Auto Power Off Before<br>Connecting With An Expansion System And<br>Having Push Button Control Thereof<br><br>Duk-Soon Cho |
| KR10-0195868<br>(KR10-1996-0063244)  | KR             | 2/18/1999<br>(12/9/1996)          | A Computer And Computer System Having A<br>Function Of Auto Power Off Before<br>Connecting With An Expansion System<br><br>Jo Duk-Sun                                             |
| 6006109<br>(08/852493)               | US             | 12/21/1999<br>(5/7/1997)          | Wireless Data Communication System Using<br>A Microphone/Headphone Jack Of A Portable<br>Phone<br><br>Seong-Kee Shin                                                              |
| KR10-0167727<br>(KR10-1996-0014823)  | KR             | 9/29/1998<br>(5/7/1996)           | Wireless Data Communication System Using<br>Mike Head Phone Of A Cellular Phone<br><br>Shin Sung-Ki                                                                               |
| CNZL97113073.6<br>(CN97113073.6)     | CN             | 2/26/2003<br>(5/7/1997)           | Wireless Data Communication System Using<br>Microphone/Headphone Jack Of Portable<br>Phone<br><br>Shin Seong-Kee                                                                  |

| <u>Patent or Application<br/>No.</u> | <u>Country</u> | <u>Grant Date<br/>Filing Date</u> | <u>Title of Patent and First Named Inventor</u>                                                           |
|--------------------------------------|----------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------|
| TWM170643<br>(TW089214986)           | TW             | 3/11/2001<br>(2/24/1997)          | A Portable Computer<br>Seo Yeol-Gu                                                                        |
| 6034867<br>(08/878847)               | US             | 3/7/2000<br>(6/19/1997)           | A Portable Computer Having A Locking<br>Assembly<br>Yeol-Gu Seo                                           |
| KR10-0190849<br>(KR10-1996-0022497)  | KR             | 1/21/1999<br>(6/20/1996)          | Personal Computer<br>Seo Yeol-Gu                                                                          |
| TWM157615<br>(TW088202321)           | TW             | 3/21/2000<br>(10/17/1996)         | A Set Top Board For Video On Demand<br>Service And A Computer System Mounting<br>The Same<br>Jun Dae-Hyun |
| 6046760<br>(08/852067)               | US             | 4/4/2000<br>(5/6/1997)            | Set Top Board For Video On Demand Service<br>And A Computer System Mounting The Same<br>Dae-Hyun Jun      |
| KR10-0205549<br>(KR10-1996-0014682)  | KR             | 4/2/1999<br>(5/6/1996)            | Vod And Set Top Board-Mounted Computer<br>System<br>Jun Dae-Hyun                                          |
| TW1112054<br>(TW087105425)           | TW             | 2/11/2000<br>(4/10/1998)          | Fixture For Speaker Components Of Portable<br>Computer<br>Shiu Lie-Jiou                                   |
| 6061460<br>(09/060466)               | US             | 5/9/2000<br>(4/15/1998)           | Fixing Device Of Speaker Unit For Portable<br>Computer<br>Yeol-Gu Seo                                     |
| KR10-0225059<br>(KR10-1997-0014011)  | KR             | 7/15/1999<br>(4/16/1997)          | Fixing Device Of Speaker Unit For Portable<br>Computer<br>Yeol-Gu Seo                                     |
| JP3715761<br>(JP09-321835)           | JP             | 9/2/2005<br>(11/25/1997)          | Password Restoring Method For Computer<br>System<br>Ryu, Chang-Hyun                                       |

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|--------------------------------------|----------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6067625<br>(08/978418)               | US             | 5/23/2000<br>(11/25/1997)         | Computer Security System Having A<br>Password Recovery Function Which Displays<br>A Password Upon The Input Of An<br>Identification Number<br><br>Chang-Hyun Ryu |
| KR10-0223484<br>(KR10-1996-0057200)  | KR             | 7/9/1999<br>(11/25/1996)          | A Computer System Having Password<br>Recovery Function<br><br>Chang-Hyun Ryu                                                                                     |
| 6079016<br>(08/852874)               | US             | 6/20/2000<br>(5/7/1997)           | Computer With Multi Booting Function<br><br>Jee-Kyoung Park                                                                                                      |
| KR10-0198382<br>(KR10-1996-0014793)  | KR             | 2/27/1999<br>(5/7/1996)           | Computer With Multi Booting Function<br><br>Ji-Kyung Park                                                                                                        |
| (JP09-053972)                        | JP             | (2/20/1997)                       | Electronic Part Supplying Tape And<br>Electronic Part Automatic Mounting System<br><br>Kim, Woo-Sig                                                              |
| 6123133<br>(08/902355)               | US             | 9/26/2000<br>(7/29/1997)          | Tape Having Electronic Elements Thereon<br>And System For Using The Same<br><br>Woo-Sig Kim                                                                      |
| KR10-0213874<br>(KR10-1996-0031301)  | KR             | 5/17/1999<br>(7/29/1996)          | Tape Having Electronic Elements Thereon<br>And System For Using The Same<br><br>Woo-Sig Kim                                                                      |
| 6128117<br>(09/058557)               | US             | 10/3/2000<br>(4/13/1998)          | Computer System Provided With Infrared<br>Communication Cable<br><br>Ji-Sang Kim                                                                                 |
| KR10-0229603<br>(KR10-1997-0013724)  | KR             | 8/17/1999<br>(4/15/1997)          | A Computer System Provided With Infrared<br>Communication Cable<br><br>Ji-Sang Kim                                                                               |
| (JP09-216180)                        | JP             | (8/11/1997)                       | Computer System Capable Of Recording<br>Moving Picture                                                                                                           |

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|--------------------------------------|----------------|-----------------------------------|-----------------------------------------------------------------------------------------|
|                                      |                |                                   | Lee, Cheon-Yeol                                                                         |
| 6134376<br>(08/910049)               | US             | 10/17/2000<br>(8/12/1997)         | Computer System Having Video Cassette<br>Recorder Incorporated Therin<br>Cheon-Yeol Lee |
| KR10-0190529<br>(KR10-1996-0033438)  | KR             | 1/20/1999<br>(8/12/1996)          | Computer System With Vtr<br>Lee Cheon-Yeol                                              |
| CNZL97117355.9<br>(CN97117355.9)     | CN             | 4/21/2004<br>(8/11/1997)          | Computer System With Video Cassette<br>Recorder Therein<br>Lee Cheon-Yeol               |
| TWI160517<br>(TW087102819)           | TW             | 8/1/2002<br>(2/26/1998)           | Portable Computer<br>Yeong Weon Kim                                                     |
| 6163450<br>(09/047520)               | US             | 12/19/2000<br>(3/25/1998)         | Portable Computer With Strap Connectors<br>Young-Won Kim                                |
| KR10-0247389<br>(KR10-1997-0010228)  | KR             | 12/11/1999<br>(3/25/1997)         | Portable Computer<br>Yeong Weon Kim                                                     |
| (JP10-100617)                        | JP             | (3/26/1998)                       | Method For Inspecting Cache Memory<br>Ju, Seok-Mann                                     |
| 6170070<br>(09/084925)               | US             | 1/2/2001<br>(5/28/1998)           | Test Method Of Cache Memory Of<br>Multiprocessor System<br>Seok-Mann Ju                 |
| CNZL98105549.4<br>(CN98105549.4)     | CN             | 11/26/2003<br>(3/12/1998)         | Test Method Of Cache Memory Of<br>Multiprocessor System<br>Ju Seok-Mann                 |
| KR10-0230454<br>(KR10-1997-0021336)  | KR             | 8/23/1999<br>(5/28/1997)          | Test Method Of Cache Memory Of<br>Multiprocessor System<br>Ju Seok-Mann                 |

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|--------------------------------------|----------------|-----------------------------------|----------------------------------------------------------------------------------------------------|
| 6173398<br>(09/075319)               | US             | 1/9/2001<br>(5/11/1998)           | Computer System Using A Common Bios For<br>Operating Plurality Of Expansion Adapters<br>Hee-Jo Kim |
| KR10-0216870<br>(KR10-1997-0021309)  | KR             | 6/2/1999<br>(5/28/1997)           | Computer For Using A Common Bios And A<br>Control Method Thereof<br>Hee-Jo Kim                     |
| 6185690<br>(09/124028)               | US             | 2/6/2001<br>(7/29/1998)           | Portable Computer Having A Radio Function<br>And Related Method<br>Jong-Il Cho                     |
| KR10-0245201<br>(KR10-1997-0036032)  | KR             | 11/26/1999<br>(7/30/1997)         | A Portable Computer Having Function Of<br>Radio<br>Jong-Il Cho                                     |
| CNZL98119828.7<br>(CN98119828.7)     | CN             | 2/26/2003<br>(7/30/1998)          | Portable Computer Having Radio Function<br>And Related Method<br>Cho Jong-Il                       |
| 6202809<br>(09/118850)               | US             | 3/20/2001<br>(7/20/1998)          | Power Supply Mechanism In Conveyor<br>System<br>Jae-Kyong Paek                                     |
| KR10-0234205<br>(KR10-1997-0033538)  | KR             | 9/16/1999<br>(7/18/1997)          | Power Supply Mechanism In Conveyor<br>System<br>Jae-Kyong Paek                                     |
| JP2845868<br>(JP10-067406)           | JP             | 10/30/1998<br>(3/17/1998)         | Error Master Detector<br>Kim, Sun-Gi                                                               |
| 6216189<br>(09/045588)               | US             | 4/10/2001<br>(3/20/1998)          | Error Master Detector<br>Sun-Gi Kim                                                                |
| KR10-0213187<br>(KR10-1997-0009538)  | KR             | 5/13/1999<br>(3/20/1997)          | Error Master Detector<br>Sun-Gi Kim                                                                |

| <u>Patent or Application<br/>No.</u> | <u>Country</u> | <u>Grant Date<br/>Filing Date</u> | <u>Title of Patent and First Named Inventor</u>                                                                |
|--------------------------------------|----------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------|
| 6256680<br>(09/012224)               | US             | 7/3/2001<br>(1/23/1998)           | Process For Controlling Communications<br>Between A Computer System And An<br>External Device<br><br>In-Ho Kim |
| KR10-0238180<br>(KR10-1997-0017058)  | KR             | 10/13/1999<br>(5/2/1997)          | Controlling Process For Computer<br>Communications Using Control Window<br><br>In-Ho Kim                       |
| EP0877313<br>(EP98303559.3)          | EP             | 12/14/2005<br>(5/6/1998)          | Pivot Device And Portable Computer With<br>Pivot Device<br><br>Lee Jin-Hyup                                    |
| 6272006<br>(09/073059)               | US             | 8/7/2001<br>(5/6/1998)            | Hinge Device For A Portable Computer<br><br>Jin Hyup Lee                                                       |
| GB0877313<br>(GB98303559.3)          | GB             | 12/14/2005<br>(5/6/1998)          | Pivot Device And Portable Computer With<br>Pivot Device<br><br>Lee Jin-Hyup                                    |
| DE69832752.7<br>(DE69832752.7)       | DE             | 12/14/2005<br>(5/6/1998)          | Pivot Device And Portable Computer With<br>Pivot Device<br><br>Lee Jin-Hyup                                    |
| FR0877313<br>(FR98303559.3)          | FR             | 12/14/2005<br>(5/6/1998)          | Pivot Device And Portable Computer With<br>Pivot Device<br><br>Lee Jin-Hyup                                    |
| (KR20-1996-0053779)                  | KR             | (12/23/1996)                      | A Portable Computer Having A Reinforced<br>Hinge Structure<br><br>Unable To Verify                             |
| KR10-0233029<br>(KR10-1997-0017227)  | KR             | 9/9/1999<br>(5/6/1997)            | Pivot Device And Portable Computer With<br>The Same<br><br>Lee Jin-Hyup                                        |
| 6275215<br>(09/134910)               | US             | 8/14/2001<br>(8/17/1998)          | Mouse Having Buttons Which Can Be<br>Operated Both Vertically And Horizontally                                 |

| <u>Patent or Application<br/>No.</u> | <u>Country</u> | <u>Grant Date<br/>Filing Date</u> | <u>Title of Patent and First Named Inventor</u>                                              |
|--------------------------------------|----------------|-----------------------------------|----------------------------------------------------------------------------------------------|
|                                      |                |                                   | Jin-Hyung Kim                                                                                |
| KR20-0168773<br>(KR20-1997-0022268)  | KR             | 11/15/1999<br>(8/16/1997)         | A Mouse Device<br>Jin-Hyung Kim                                                              |
| 6340988<br>(09/071539)               | US             | 1/22/2002<br>(5/4/1998)           | Method And Apparatus For Displaying Video<br>Data For Testing A Video Board<br>Young-Il Jeon |
| TW1108029<br>(TW087106249)           | TW             | 9/21/1999<br>(4/23/1998)          | A Method Of Displaying A Video Data For<br>Testing A Video Board<br>Young-Il Jeon            |
| KR10-0222985<br>(KR10-1997-0016976)  | KR             | 7/7/1999<br>(5/2/1997)            | Method Of Displaying A Video Data For<br>Testing A Video Board<br>Young-Il Jeon              |
| JP3627125<br>(JP09-226926)           | JP             | 12/17/2004<br>(8/25/1997)         | Method For Inspecting Computer System By<br>Using Hard Disk<br>Jeon, Young-Il                |
| 6418541<br>(08/916340)               | US             | 7/9/2002<br>(8/22/1997)           | Method Of Testing Computer System With<br>Hard Disk<br>Youngil Jeon                          |
| KR10-0191269<br>(KR10-1996-0035113)  | KR             | 1/23/1999<br>(8/23/1996)          | Method Of Testing Computer System With<br>Hard Disk<br>Young-Il Jeon                         |
| CNZL97122726.8<br>(CN97122726.8)     | CN             | 11/20/2002<br>(8/22/1997)         | Method For Testing Computer System With<br>Hard Disk<br>Jeon Young I                         |
| 6442712<br>(09/076738)               | US             | 8/27/2002<br>(5/13/1998)          | Apparatus And Method Utilized To<br>Automatically Test A Computer<br>Young-Il Jeon           |

| <u>Patent or Application<br/>No.</u> | <u>Country</u> | <u>Grant Date<br/>Filing Date</u> | <u>Title of Patent and First Named Inventor</u>                                                                                                                                                                                |
|--------------------------------------|----------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| KR10-0222972<br>(KR10-1997-0018791)  | KR             | 7/7/1999<br>(5/15/1997)           | Data Storage Media For Inspection<br>Automation Of Computer And Automatic<br>Inspection Method Using It<br><br>Young-II Jeon                                                                                                   |
| 6750782<br>(08/995996)               | US             | 6/15/2004<br>(12/22/1997)         | Remote Control System Operating With User<br>Defined Code Signal And The Method Of<br>Controlling The Same<br><br>Jung-Gun Byun                                                                                                |
| KR10-0229823<br>(KR10-1996-0069849)  | KR             | 8/18/1999<br>(12/21/1996)         | Remote Control System Operating With User<br>Defined Code Signal And The Method Of<br>Controlling The Same<br><br>Jung-Gun Byun                                                                                                |
| 5974554<br>(09/022635)               | US             | 10/26/1999<br>(2/12/1998)         | Computer System With Automatic<br>Configuration Capability For Industry<br>Standard Architecture(Isa) Cards<br><br>Oh, Sang-Min                                                                                                |
| KR10-0265711<br>(KR10-1997-0004378)  | KR             | 6/16/2000<br>(2/14/1997)          | Plug And Play Controls For Isa Peripheral<br>Devices<br><br>Unable To Verify                                                                                                                                                   |
| 5987533<br>(08/895499)               | US             | 11/16/1999<br>(7/16/1997)         | Automatically Configuring Scsi Device<br>Addresses Using Scsi Controller Storing<br>Predetermined Id And, Producing Address<br>Signals For Transferring To Peripheral Device<br>Via Scsi Id Input Means<br><br>Hong, Bum Ryong |
| KR10-0265708<br>(KR10-1996-0028795)  | KR             | 6/16/2000<br>(7/16/1996)          | Auto Configuration Scsi Id Apparatus<br><br>Unable To Verify                                                                                                                                                                   |
| 6044473<br>(09/009654)               | US             | 3/28/2000<br>(1/20/1998)          | Portable Computer Having A Switch For<br>Changing A Power-Controlling Mode<br><br>Kim, Tae-Yong                                                                                                                                |



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|--------------------------------------|----------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------|
| KR10-0422500<br>(KR10-1997-0010359)  | KR             | 3/2/2004<br>(3/25/1997)           | Portable Computer Having A Switch For<br>Changing A Power-Controlling Mode<br><br>Unable To Verify                  |
| (CN98100728.7)                       | CN             | (3/12/1998)                       | Portable Computer With Hand Straps<br><br>Kim Jung-Hoon                                                             |
| 6101086<br>(09/047521)               | US             | 8/8/2000<br>(3/25/1998)           | Portable Computer With Hand Grip<br><br>Kim, Jung-Hoon                                                              |
| (KR10-1997-0010227)                  | KR             | (3/25/1997)                       | Portable Computer With Hand Grip<br><br>Unable To Verify                                                            |
| 6115883<br>(08/951840)               | US             | 9/12/2000<br>(10/17/1997)         | Carrying Device For A Portable Computer<br><br>Um, Kun-Ho                                                           |
| (KR10-1996-0046524)                  | KR             | (10/17/1996)                      | Carrying Device For A Portable Computer<br><br>Unable To Verify                                                     |
| (EP97304980.2)                       | EP             | (7/8/1997)                        | Method And Apparatus For Controlling Use<br>Of A Telephone Line<br><br>Lee Surg-June                                |
| (JP09-182010)                        | JP             | (7/8/1997)                        | Video Telephone Set And Method For Using<br>And Controlling Line Thereof<br><br>Lee Surg-June                       |
| 6124879<br>(08/889847)               | US             | 9/26/2000<br>(7/8/1997)           | Visual Telephone System And Method<br>Capable Of Controlling The Use Of A<br>Telephone Line<br><br>Lee, Surg-June   |
| KR10-0281540<br>(KR10-1996-0027519)  | KR             | 11/18/2000<br>(7/8/1996)          | Visual Telephone System And Method<br>Capable Of Controlling The Use Of A<br>Telephone Line<br><br>Unable To Verify |

| <u>Patent or Application<br/>No.</u> | <u>Country</u> | <u>Grant Date<br/>Filing Date</u> | <u>Title of Patent and First Named Inventor</u>                     |
|--------------------------------------|----------------|-----------------------------------|---------------------------------------------------------------------|
| (JP10-119017)                        | JP             | (4/28/1998)                       | Portable Computer<br>Cho, Keon-Young                                |
| 6208504<br>(09/066925)               | US             | 3/27/2001<br>(4/28/1998)          | Portable Computer Having A Retractable<br>Handle<br>Cho, Keon-Young |
| (KR20-1997-0027149)                  | KR             | (9/30/1997)                       | Portable Computer Having A Retractable<br>Handle<br>CHO, Keon       |

Assignor assigns to Assignee all rights to the inventions, invention disclosures, and discoveries in the assets listed above, together, with the rights, if any, to revive prosecution of claims under such assets and to sue or otherwise enforce any claims under such assets for past, present or future infringement.

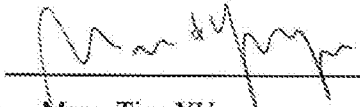
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The terms and conditions of this Assignment of Rights in Certain Assets will inure to the benefit of Assignee, its successors, assigns, and other legal representatives and will be binding upon Assignor, its successors, assigns, and other legal representatives.

DATED this 26th day of November 2019.

**ASSIGNOR:**

**Jingpin Technologies, LLC**

By:   
 Name: Meng-Tien YU  
 Title: Authorized Person

**ASSIGNEE:**

**Intellectual Ventures Assets 161 LLC**

By: \_\_\_\_\_  
Name: Lawrence Froeber  
Title: Chief Financial Officer

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For good and valuable consideration, the receipt of which is hereby acknowledged, Jingpin Technologies, LLC, a Delaware limited liability company, having an address at 251 Little Falls Drive, Wilmington, DE 19808 (“**Assignor**”), does hereby sell, assign, transfer, and convey unto Intellectual Ventures Assets 161 LLC, a Delaware limited liability company, having an address at 251 Little Falls Drive, Wilmington, DE 19808 (“**Assignee**”), or its designees, the right, title, and interest in and to any and all of the following provisional patent applications, patent applications, patents, and other governmental grants or issuances of any kind (the “**Certain Assets**”):

| <u>Patent or Application No.</u>    | <u>Country</u> | <u>Grant Date Filing Date</u> | <u>Title of Patent and First Named Inventor</u>                                                                     |
|-------------------------------------|----------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 5852544<br>(08/840588)              | US             | 12/22/1998<br>(4/22/1997)     | Power Connection Bracket For Computer System And Computer System Having The Same<br><br>Ju-Hun Lee                  |
| TWI111999<br>(TW086102768)          | TW             | 2/1/2000<br>(3/6/1997)        | Bracket For Computer System<br><br>Lee Ju-Hun                                                                       |
| KR10-0190599<br>(KR10-1996-0012200) | KR             | 1/21/1999<br>(4/22/1996)      | A Bracket Device<br><br>Ju-Hun Lee                                                                                  |
| 5870281<br>(08/902130)              | US             | 2/9/1999<br>(7/30/1997)       | Locking Portable Computer<br><br>Tae-Yong Kim                                                                       |
| KR10-0190843<br>(KR10-1996-0031981) | KR             | 1/21/1999<br>(7/31/1996)      | A Portable Computer<br><br>Tae-Yong Kim                                                                             |
| 5872515<br>(08/814654)              | US             | 2/16/1999<br>(3/11/1997)      | Laptop Computer With An Anti-Theft Alarm Function And A Method Of Controlling The Same<br><br>Ho-Jin Ha             |
| (KR10-1996-0007580)                 | KR             | (3/20/1996)                   | A Compact Personal Computer With An Anti-Theft Alarm Function And A Method Of Controlling The Same<br><br>Ho-Jin Ha |

| <u>Patent or Application<br/>No.</u> | <u>Country</u> | <u>Grant Date<br/>Filing Date</u> | <u>Title of Patent and First Named Inventor</u>                                                                                                               |
|--------------------------------------|----------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| KR10-0175284<br>(KR10-1996-0030676)  | KR             | 11/9/1998<br>(7/26/1996)          | A Compact Personal Computer With An Anti-Theft Alarm Function And A Method Of Controlling The Same<br><br>Ho-Jin Ha                                           |
| JP3979693<br>(JP09-020085)           | JP             | 7/6/2007<br>(1/17/1997)           | Modem<br><br>Shin, Seong-Kee                                                                                                                                  |
| 5889841<br>(08/785021)               | US             | 3/30/1999<br>(1/17/1997)          | Modem With Noise Eliminating Circuit<br><br>Seong-Kee Shin                                                                                                    |
| KR10-0221086<br>(KR10-1996-0000817)  | KR             | 6/25/1999<br>(1/17/1996)          | Modem With Noise Preventing Circuit<br><br>Sung-Ki Shin                                                                                                       |
| JP3799130<br>(JP09-130643)           | JP             | 4/28/2006<br>(5/21/1997)          | Power-Saving Mode Switching Method Of Computer Having Function For Saving Power During Use Of Network<br><br>Ryu, Chang-Hyun                                  |
| 5900026<br>(08/861324)               | US             | 5/4/1999<br>(5/21/1997)           | Method And Apparatus For Setting A Computer Coupled To A Network Into A Power Saving Mode<br><br>Chang-Hyun Ryu                                               |
| CNZL97114827.9<br>(CN97114827.9)     | CN             | 12/3/2003<br>(5/21/1997)          | Method For Setting Computer Having Power Saving Function Into Power Saving Mode When Using Network<br><br>Ryu Chang-Hyun                                      |
| KR10-0245199<br>(KR10-1996-0017222)  | KR             | 11/26/1999<br>(5/21/1996)         | Method For Setting A Computer Having A Power Saving Function Into A Power Saving Mode When Using A Network<br><br>Yu Chang Hyun                               |
| 5909555<br>(08/789480)               | US             | 6/1/1999<br>(1/27/1997)           | Method And System For Supporting Data Communication Between Personal Computers Using Audio Drivers, Microphone Jacks, And Telephone Jacks<br><br>Sung-Ho Jung |

| <b><u>Patent or Application<br/>No.</u></b> | <b><u>Country</u></b> | <b><u>Grant Date<br/>Filing Date</u></b> | <b><u>Title of Patent and First Named Inventor</u></b>                                                                                           |
|---------------------------------------------|-----------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| KR10-0198879<br>(KR10-1996-0001752)         | KR                    | 3/3/1999<br>(1/26/1996)                  | Apparatus And Method For Computer<br>Communication Using Audio Function<br><br>Seong-Ho Jung                                                     |
| EP0803793<br>(EP97302871.5)                 | EP                    | 6/18/2003<br>(4/25/1997)                 | A Computer System Having A Parallel Port<br>As A Power Supply For Its Peripheral Device<br>And An Extension Device Thereof<br><br>Yang Sung Dong |
| JP3682147<br>(JP09-111211)                  | JP                    | 5/27/2005<br>(4/28/1997)                 | Computer System And Its Extending Device<br><br>Yang Sung Dong                                                                                   |
| 5911079<br>(08/840631)                      | US                    | 6/8/1999<br>(4/25/1997)                  | Computer System Having A Parallel Port For<br>Its Peripheral Device And An Expansion<br>Device Thereof<br><br>Sung-Dong Yang                     |
| DE69722848.7<br>(DE69722848.7)              | DE                    | 6/18/2003<br>(4/25/1997)                 | A Computer System Having A Parallel Port<br>As A Power Supply For Its Peripheral Device<br>And An Extension Device Thereof<br><br>Yang Sung Dong |
| IT0803793<br>(IT97302871.5)                 | IT                    | 6/18/2003<br>(4/25/1997)                 | A Computer System Having A Parallel Port<br>As A Power Supply For Its Peripheral Device<br>And An Extension Device Thereof<br><br>Yang Sung Dong |
| FR0803793<br>(FR97302871.5)                 | FR                    | 6/18/2003<br>(4/25/1997)                 | A Computer System Having A Parallel Port<br>As A Power Supply For Its Peripheral Device<br>And An Extension Device Thereof<br><br>Yang Sung Dong |
| GB0803793<br>(GB97302871.5)                 | GB                    | 6/18/2003<br>(4/25/1997)                 | A Computer System Having A Parallel Port<br>As A Power Supply For Its Peripheral Device<br>And An Extension Device Thereof<br><br>Yang Sung Dong |
| (KR20-1997-0000147)                         | KR                    | (1/8/1997)                               | Computer System Having A Parallel Port As<br>A Power Supply For Its Peripheral Device<br>And An Extension Device Thereof                         |

| <u>Patent or Application<br/>No.</u> | <u>Country</u> | <u>Grant Date<br/>Filing Date</u> | <u>Title of Patent and First Named Inventor</u>                                                                                                |
|--------------------------------------|----------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      |                |                                   | Unable To Verify                                                                                                                               |
| CNZL97104269.1<br>(CN97104269.1)     | CN             | 6/30/2004<br>(4/25/1997)          | Computer Capable Of Power Supply To<br>Peripheral Equipment Using Concurrent<br>Terminal<br><br>Yang Sung-Dong                                 |
| KR10-0207321<br>(KR10-1996-0013117)  | KR             | 4/12/1999<br>(4/26/1996)          | Computer Having An Output Port Capable Of<br>Power Supply<br><br>Yang Sung Dong                                                                |
| (JP09-107206)                        | JP             | (4/24/1997)                       | Hard Disk Cache Control Method<br><br>Lee, Kil-Moo                                                                                             |
| 5937433<br>(08/842398)               | US             | 8/10/1999<br>(4/24/1997)          | Method Of Controlling Hard Disk Cache To<br>Reduce Power Consumption Of Hard Disk<br>Drive Used In Battery Powered Computer<br><br>Kil-Moo Lee |
| KR10-0174711<br>(KR10-1996-0012742)  | KR             | 11/5/1998<br>(4/24/1996)          | Method Of Controlling Hard Disk Cache<br><br>Kil-Moo Lee                                                                                       |
| 5970234<br>(08/792424)               | US             | 10/19/1999<br>(1/30/1997)         | Pci Bus Arbiter And A Bus Control System<br>Having The Same<br><br>Sung-Kon Jin                                                                |
| KR10-0167726<br>(KR10-1996-0002136)  | KR             | 9/29/1998<br>(1/30/1996)          | Pci Bus Arbiter And A Bus Control System<br>Having The Same<br><br>Sung-Kon Jin                                                                |
| 5995593<br>(08/841604)               | US             | 11/30/1999<br>(4/30/1997)         | Wire/Wireless Communication System For<br>Communicating Between Two Locations<br>Using Telephone Network<br><br>Han-Jin Cho                    |
| KR10-0174485<br>(KR10-1996-0013658)  | KR             | 11/4/1998<br>(4/30/1996)          | Wire/Wireless Communication System<br>Between Two Locations Using Telephone<br>Network<br><br>Unable To Verify                                 |

| <b><u>Patent or Application<br/>No.</u></b> | <b><u>Country</u></b> | <b><u>Grant Date<br/>Filing Date</u></b> | <b><u>Title of Patent and First Named Inventor</u></b>                                                                  |
|---------------------------------------------|-----------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 5997323<br>(09/059393)                      | US                    | 12/7/1999<br>(4/14/1998)                 | Device For Connecting A Portable Computer<br>To A Docking Station<br><br>Jae-Sam Youn                                   |
| KR10-0233027<br>(KR10-1997-0013725)         | KR                    | 9/9/1999<br>(4/15/1997)                  | Device For Portable Computer Docking<br>Stations And Docking Station With The Same<br><br>Jae-Sam Youn                  |
| (EP97304206.2)                              | EP                    | (6/16/1997)                              | Method For Partitioning Storage Regions On<br>Hard Disk And Computer System Adapted To<br>The Same<br><br>YOUNG-IL JEON |
| JP3691214<br>(JP09-194534)                  | JP                    | 6/24/2005<br>(7/18/1997)                 | Hard Disk Division Method And Computer<br>System Test Method Using The Division<br>Method<br><br>Young-Il Jeon          |
| TWI113417<br>(TW086107702)                  | TW                    | 3/21/2000<br>(6/4/1997)                  | Method For Partitioning Storage Regions On<br>Hard Disk And Computer System Adapted To<br>The Same<br><br>YOUNG-IL JEON |
| 6000023<br>(08/897252)                      | US                    | 12/7/1999<br>(7/18/1997)                 | Method For Partitioning Storage Regions On<br>Hard Disk And Computer System Adapted To<br>The Same<br><br>Young-Il Jeon |
| KR10-0205539<br>(KR10-1996-0029398)         | KR                    | 4/2/1999<br>(7/19/1996)                  | Method For Partitioning Storage Regions On<br>Hard Disk And Computer System Adapted To<br>The Same<br><br>Young-Il Jeon |
| JP3753835<br>(JP09-115568)                  | JP                    | 12/22/2005<br>(5/6/1997)                 | Device And Method For Monitoring<br>Computer System<br><br>Hong, Bum-Ryong                                              |
| 6003145<br>(08/852071)                      | US                    | 12/14/1999<br>(5/6/1997)                 | Computer Monitoring Apparatus And A<br>Method Of Controlling The Same                                                   |



| <u>Patent or Application No.</u>    | <u>Country</u> | <u>Grant Date Filing Date</u> | <u>Title of Patent and First Named Inventor</u>                                                                                                                          |
|-------------------------------------|----------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     |                |                               | Bum- Ryong Hong                                                                                                                                                          |
| KR10-0221027<br>(KR10-1996-0014681) | KR             | 6/24/1999<br>(5/6/1996)       | A Computer Monitoring Apparatus And A Method Of Controlling The Same<br><br>Hong Bom Ryong                                                                               |
| (JP09-339190)                       | JP             | (12/9/1997)                   | Automatic Power Source Interrupting Device For Computer System<br><br>Cho, Duk-Soon                                                                                      |
| TWM205573<br>(TW090210853)          | TW             | 6/1/2003<br>(12/3/1997)       | Computer Having A Function Of Auto Power Off Before Connecting With An Expansion System<br><br>Cho Duk-Soon                                                              |
| 6005769<br>(08/987857)              | US             | 12/21/1999<br>(12/9/1997)     | A Computer And Computer System Having A Function Of Auto Power Off Before Connecting With An Expansion System And Having Push Button Control Thereof<br><br>Duk-Soon Cho |
| KR10-0195868<br>(KR10-1996-0063244) | KR             | 2/18/1999<br>(12/9/1996)      | A Computer And Computer System Having A Function Of Auto Power Off Before Connecting With An Expansion System<br><br>Jo Duk-Sun                                          |
| 6006109<br>(08/852493)              | US             | 12/21/1999<br>(5/7/1997)      | Wireless Data Communication System Using A Microphone/Headphone Jack Of A Portable Phone<br><br>Seong-Kee Shin                                                           |
| KR10-0167727<br>(KR10-1996-0014823) | KR             | 9/29/1998<br>(5/7/1996)       | Wireless Data Communication System Using Mike Head Phone Of A Cellular Phone<br><br>Shin Sung-Ki                                                                         |
| CNZL97113073.6<br>(CN97113073.6)    | CN             | 2/26/2003<br>(5/7/1997)       | Wireless Data Communication System Using Microphone/Headphone Jack Of Portable Phone<br><br>Shin Seong-Kee                                                               |

| <b><u>Patent or Application<br/>No.</u></b> | <b><u>Country</u></b> | <b><u>Grant Date<br/>Filing Date</u></b> | <b><u>Title of Patent and First Named Inventor</u></b>                                                    |
|---------------------------------------------|-----------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| TWM170643<br>(TW089214986)                  | TW                    | 3/11/2001<br>(2/24/1997)                 | A Portable Computer<br>Seo Yeol-Gu                                                                        |
| 6034867<br>(08/878847)                      | US                    | 3/7/2000<br>(6/19/1997)                  | A Portable Computer Having A Locking<br>Assembly<br>Yeol-Gu Seo                                           |
| KR10-0190849<br>(KR10-1996-0022497)         | KR                    | 1/21/1999<br>(6/20/1996)                 | Personal Computer<br>Seo Yeol-Gu                                                                          |
| TWM157615<br>(TW088202321)                  | TW                    | 3/21/2000<br>(10/17/1996)                | A Set Top Board For Video On Demand<br>Service And A Computer System Mounting<br>The Same<br>Jun Dae-Hyun |
| 6046760<br>(08/852067)                      | US                    | 4/4/2000<br>(5/6/1997)                   | Set Top Board For Video On Demand Service<br>And A Computer System Mounting The Same<br>Dae-Hyun Jun      |
| KR10-0205549<br>(KR10-1996-0014682)         | KR                    | 4/2/1999<br>(5/6/1996)                   | Vod And Set Top Board-Mounted Computer<br>System<br>Jun Dae-Hyun                                          |
| TWI112054<br>(TW087105425)                  | TW                    | 2/11/2000<br>(4/10/1998)                 | Fixture For Speaker Components Of Portable<br>Computer<br>Shiu Lie-Jiou                                   |
| 6061460<br>(09/060466)                      | US                    | 5/9/2000<br>(4/15/1998)                  | Fixing Device Of Speaker Unit For Portable<br>Computer<br>Yeol-Gu Seo                                     |
| KR10-0225059<br>(KR10-1997-0014011)         | KR                    | 7/15/1999<br>(4/16/1997)                 | Fixing Device Of Speaker Unit For Portable<br>Computer<br>Yeol-Gu Seo                                     |
| JP3715761<br>(JP09-321835)                  | JP                    | 9/2/2005<br>(11/25/1997)                 | Password Restoring Method For Computer<br>System<br>Ryu, Chang-Hyun                                       |

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|---------------------------------------------|-----------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6067625<br>(08/978418)                      | US                    | 5/23/2000<br>(11/25/1997)                | Computer Security System Having A Password Recovery Function Which Displays A Password Upon The Input Of An Identification Number<br><br>Chang-Hyun Ryu |
| KR10-0223484<br>(KR10-1996-0057200)         | KR                    | 7/9/1999<br>(11/25/1996)                 | A Computer System Having Password Recovery Function<br><br>Chang-Hyun Ryu                                                                               |
| 6079016<br>(08/852874)                      | US                    | 6/20/2000<br>(5/7/1997)                  | Computer With Multi Booting Function<br><br>Jee-Kyoung Park                                                                                             |
| KR10-0198382<br>(KR10-1996-0014793)         | KR                    | 2/27/1999<br>(5/7/1996)                  | Computer With Multi Booting Function<br><br>Ji-Kyung Park                                                                                               |
| (JP09-053972)                               | JP                    | (2/20/1997)                              | Electronic Part Supplying Tape And Electronic Part Automatic Mounting System<br><br>Kim, Woo-Sig                                                        |
| 6123133<br>(08/902355)                      | US                    | 9/26/2000<br>(7/29/1997)                 | Tape Having Electronic Elements Thereon And System For Using The Same<br><br>Woo-Sig Kim                                                                |
| KR10-0213874<br>(KR10-1996-0031301)         | KR                    | 5/17/1999<br>(7/29/1996)                 | Tape Having Electronic Elements Thereon And System For Using The Same<br><br>Woo-Sig Kim                                                                |
| 6128117<br>(09/058557)                      | US                    | 10/3/2000<br>(4/13/1998)                 | Computer System Provided With Infrared Communication Cable<br><br>Ji-Sang Kim                                                                           |
| KR10-0229603<br>(KR10-1997-0013724)         | KR                    | 8/17/1999<br>(4/15/1997)                 | A Computer System Provided With Infrared Communication Cable<br><br>Ji-Sang Kim                                                                         |
| (JP09-216180)                               | JP                    | (8/11/1997)                              | Computer System Capable Of Recording Moving Picture                                                                                                     |

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|--------------------------------------|----------------|-----------------------------------|---------------------------------------------------------------------------------------------|
|                                      |                |                                   | Lee, Cheon-Yeol                                                                             |
| 6134376<br>(08/910049)               | US             | 10/17/2000<br>(8/12/1997)         | Computer System Having Video Cassette<br>Recorder Incorporated Therin<br><br>Cheon-Yeol Lee |
| KR10-0190529<br>(KR10-1996-0033438)  | KR             | 1/20/1999<br>(8/12/1996)          | Computer System With Vtr<br><br>Lee Cheon-Yeol                                              |
| CNZL97117355.9<br>(CN97117355.9)     | CN             | 4/21/2004<br>(8/11/1997)          | Computer System With Video Cassette<br>Recorder Therein<br><br>Lee Cheon-Yeol               |
| TWI160517<br>(TW087102819)           | TW             | 8/1/2002<br>(2/26/1998)           | Portable Computer<br><br>Yeong Weon Kim                                                     |
| 6163450<br>(09/047520)               | US             | 12/19/2000<br>(3/25/1998)         | Portable Computer With Strap Connectors<br><br>Young-Won Kim                                |
| KR10-0247389<br>(KR10-1997-0010228)  | KR             | 12/11/1999<br>(3/25/1997)         | Portable Computer<br><br>Yeong Weon Kim                                                     |
| (JP10-100617)                        | JP             | (3/26/1998)                       | Method For Inspecting Cache Memory<br><br>Ju, Seok-Mann                                     |
| 6170070<br>(09/084925)               | US             | 1/2/2001<br>(5/28/1998)           | Test Method Of Cache Memory Of<br>Multiprocessor System<br><br>Seok-Mann Ju                 |
| CNZL98105549.4<br>(CN98105549.4)     | CN             | 11/26/2003<br>(3/12/1998)         | Test Method Of Cache Memory Of<br>Multiprocessor System<br><br>Ju Seok-Mann                 |
| KR10-0230454<br>(KR10-1997-0021336)  | KR             | 8/23/1999<br>(5/28/1997)          | Test Method Of Cache Memory Of<br>Multiprocessor System<br><br>Ju Seok-Mann                 |

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|---------------------------------------------|-----------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 6173398<br>(09/075319)                      | US                    | 1/9/2001<br>(5/11/1998)                  | Computer System Using A Common Bios For<br>Operating Plurality Of Expansion Adapters<br><br>Hee-Jo Kim |
| KR10-0216870<br>(KR10-1997-0021309)         | KR                    | 6/2/1999<br>(5/28/1997)                  | Computer For Using A Common Bios And A<br>Control Method Thereof<br><br>Hee-Jo Kim                     |
| 6185690<br>(09/124028)                      | US                    | 2/6/2001<br>(7/29/1998)                  | Portable Computer Having A Radio Function<br>And Related Method<br><br>Jong-Il Cho                     |
| KR10-0245201<br>(KR10-1997-0036032)         | KR                    | 11/26/1999<br>(7/30/1997)                | A Portable Computer Having Function Of<br>Radio<br><br>Jong-Il Cho                                     |
| CNZL98119828.7<br>(CN98119828.7)            | CN                    | 2/26/2003<br>(7/30/1998)                 | Portable Computer Having Radio Function<br>And Related Method<br><br>Cho Jong-Il                       |
| 6202809<br>(09/118850)                      | US                    | 3/20/2001<br>(7/20/1998)                 | Power Supply Mechanism In Conveyor<br>System<br><br>Jae-Kyong Paek                                     |
| KR10-0234205<br>(KR10-1997-0033538)         | KR                    | 9/16/1999<br>(7/18/1997)                 | Power Supply Mechanism In Conveyor<br>System<br><br>Jae-Kyong Paek                                     |
| JP2845868<br>(JP10-067406)                  | JP                    | 10/30/1998<br>(3/17/1998)                | Error Master Detector<br><br>Kim, Sun-Gi                                                               |
| 6216189<br>(09/045588)                      | US                    | 4/10/2001<br>(3/20/1998)                 | Error Master Detector<br><br>Sun-Gi Kim                                                                |
| KR10-0213187<br>(KR10-1997-0009538)         | KR                    | 5/13/1999<br>(3/20/1997)                 | Error Master Detector<br><br>Sun-Gi Kim                                                                |

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|--------------------------------------|----------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------|
| 6256680<br>(09/012224)               | US             | 7/3/2001<br>(1/23/1998)           | Process For Controlling Communications<br>Between A Computer System And An<br>External Device<br><br>In-Ho Kim |
| KR10-0238180<br>(KR10-1997-0017058)  | KR             | 10/13/1999<br>(5/2/1997)          | Controlling Process For Computer<br>Communications Using Control Window<br><br>In-Ho Kim                       |
| EP0877313<br>(EP98303559.3)          | EP             | 12/14/2005<br>(5/6/1998)          | Pivot Device And Portable Computer With<br>Pivot Device<br><br>Lee Jin-Hyup                                    |
| 6272006<br>(09/073059)               | US             | 8/7/2001<br>(5/6/1998)            | Hinge Device For A Portable Computer<br><br>Jin Hyup Lee                                                       |
| GB0877313<br>(GB98303559.3)          | GB             | 12/14/2005<br>(5/6/1998)          | Pivot Device And Portable Computer With<br>Pivot Device<br><br>Lee Jin-Hyup                                    |
| DE69832752.7<br>(DE69832752.7)       | DE             | 12/14/2005<br>(5/6/1998)          | Pivot Device And Portable Computer With<br>Pivot Device<br><br>Lee Jin-Hyup                                    |
| FR0877313<br>(FR98303559.3)          | FR             | 12/14/2005<br>(5/6/1998)          | Pivot Device And Portable Computer With<br>Pivot Device<br><br>Lee Jin-Hyup                                    |
| (KR20-1996-0053779)                  | KR             | (12/23/1996)                      | A Portable Computer Having A Reinforced<br>Hinge Structure<br><br>Unable To Verify                             |
| KR10-0233029<br>(KR10-1997-0017227)  | KR             | 9/9/1999<br>(5/6/1997)            | Pivot Device And Portable Computer With<br>The Same<br><br>Lee Jin-Hyup                                        |
| 6275215<br>(09/134910)               | US             | 8/14/2001<br>(8/17/1998)          | Mouse Having Buttons Which Can Be<br>Operated Both Vertically And Horizontally                                 |

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|--------------------------------------|----------------|-----------------------------------|----------------------------------------------------------------------------------------------|
|                                      |                |                                   | Jin-Hyung Kim                                                                                |
| KR20-0168773<br>(KR20-1997-0022268)  | KR             | 11/15/1999<br>(8/16/1997)         | A Mouse Device<br>Jin-Hyung Kim                                                              |
| 6340988<br>(09/071539)               | US             | 1/22/2002<br>(5/4/1998)           | Method And Apparatus For Displaying Video<br>Data For Testing A Video Board<br>Young-Il Jeon |
| TWI108029<br>(TW087106249)           | TW             | 9/21/1999<br>(4/23/1998)          | A Method Of Displaying A Video Data For<br>Testing A Video Board<br>Young-Il Jeon            |
| KR10-0222985<br>(KR10-1997-0016976)  | KR             | 7/7/1999<br>(5/2/1997)            | Method Of Displaying A Video Data For<br>Testing A Video Board<br>Young-Il Jeon              |
| JP3627125<br>(JP09-226926)           | JP             | 12/17/2004<br>(8/25/1997)         | Method For Inspecting Computer System By<br>Using Hard Disk<br>Jeon, Young-Il                |
| 6418541<br>(08/916340)               | US             | 7/9/2002<br>(8/22/1997)           | Method Of Testing Computer System With<br>Hard Disk<br>Youngil Jeon                          |
| KR10-0191269<br>(KR10-1996-0035113)  | KR             | 1/23/1999<br>(8/23/1996)          | Method Of Testing Computer System With<br>Hard Disk<br>Young-Il Jeon                         |
| CNZL97122726.8<br>(CN97122726.8)     | CN             | 11/20/2002<br>(8/22/1997)         | Method For Testing Computer System With<br>Hard Disk<br>Jeon Young I                         |
| 6442712<br>(09/076738)               | US             | 8/27/2002<br>(5/13/1998)          | Apparatus And Method Utilized To<br>Automatically Test A Computer<br>Young-Il Jeon           |

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|--------------------------------------|----------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| KR10-0222972<br>(KR10-1997-0018791)  | KR             | 7/7/1999<br>(5/15/1997)           | Data Storage Media For Inspection<br>Automation Of Computer And Automatic<br>Inspection Method Using It<br><br>Young-Il Jeon                                                                                                   |
| 6750782<br>(08/995996)               | US             | 6/15/2004<br>(12/22/1997)         | Remote Control System Operating With User<br>Defined Code Signal And The Method Of<br>Controlling The Same<br><br>Jung-Gun Byun                                                                                                |
| KR10-0229823<br>(KR10-1996-0069849)  | KR             | 8/18/1999<br>(12/21/1996)         | Remote Control System Operating With User<br>Defined Code Signal And The Method Of<br>Controlling The Same<br><br>Jung-Gun Byun                                                                                                |
| 5974554<br>(09/022635)               | US             | 10/26/1999<br>(2/12/1998)         | Computer System With Automatic<br>Configuration Capability For Industry<br>Standard Architecture(Isa) Cards<br><br>Oh, Sang-Min                                                                                                |
| KR10-0265711<br>(KR10-1997-0004378)  | KR             | 6/16/2000<br>(2/14/1997)          | Plug And Play Controls For Isa Peripheral<br>Devices<br><br>Unable To Verify                                                                                                                                                   |
| 5987533<br>(08/895499)               | US             | 11/16/1999<br>(7/16/1997)         | Automatically Configuring Scsi Device<br>Addresses Using Scsi Controller Storing<br>Predetermined Id And, Producing Address<br>Signals For Transferring To Peripheral Device<br>Via Scsi Id Input Means<br><br>Hong, Bum Ryong |
| KR10-0265708<br>(KR10-1996-0028795)  | KR             | 6/16/2000<br>(7/16/1996)          | Auto Configuration Scsi Id Apparatus<br><br>Unable To Verify                                                                                                                                                                   |
| 6044473<br>(09/009654)               | US             | 3/28/2000<br>(1/20/1998)          | Portable Computer Having A Switch For<br>Changing A Power-Controlling Mode<br><br>Kim, Tae-Yong                                                                                                                                |



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|---------------------------------------------|-----------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| KR10-0422500<br>(KR10-1997-0010359)         | KR                    | 3/2/2004<br>(3/25/1997)                  | Portable Computer Having A Switch For<br>Changing A Power-Controlling Mode<br><br>Unable To Verify                  |
| (CN98100728.7)                              | CN                    | (3/12/1998)                              | Portable Computer With Hand Straps<br><br>Kim Jung-Hoon                                                             |
| 6101086<br>(09/047521)                      | US                    | 8/8/2000<br>(3/25/1998)                  | Portable Computer With Hand Grip<br><br>Kim, Jung-Hoon                                                              |
| (KR10-1997-0010227)                         | KR                    | (3/25/1997)                              | Portable Computer With Hand Grip<br><br>Unable To Verify                                                            |
| 6115883<br>(08/951840)                      | US                    | 9/12/2000<br>(10/17/1997)                | Carrying Device For A Portable Computer<br><br>Um, Kun-Ho                                                           |
| (KR10-1996-0046524)                         | KR                    | (10/17/1996)                             | Carrying Device For A Portable Computer<br><br>Unable To Verify                                                     |
| (EP97304980.2)                              | EP                    | (7/8/1997)                               | Method And Apparatus For Controlling Use<br>Of A Telephone Line<br><br>Lee Surg-June                                |
| (JP09-182010)                               | JP                    | (7/8/1997)                               | Video Telephone Set And Method For Using<br>And Controlling Line Thereof<br><br>Lee Surg-June                       |
| 6124879<br>(08/889847)                      | US                    | 9/26/2000<br>(7/8/1997)                  | Visual Telephone System And Method<br>Capable Of Controlling The Use Of A<br>Telephone Line<br><br>Lee, Surg-June   |
| KR10-0281540<br>(KR10-1996-0027519)         | KR                    | 11/18/2000<br>(7/8/1996)                 | Visual Telephone System And Method<br>Capable Of Controlling The Use Of A<br>Telephone Line<br><br>Unable To Verify |

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|--------------------------------------|----------------|-----------------------------------|---------------------------------------------------------------------|
| (JP10-119017)                        | JP             | (4/28/1998)                       | Portable Computer<br>Cho, Keon-Young                                |
| 6208504<br>(09/066925)               | US             | 3/27/2001<br>(4/28/1998)          | Portable Computer Having A Retractable<br>Handle<br>Cho, Keon-Young |
| (KR20-1997-0027149)                  | KR             | (9/30/1997)                       | Portable Computer Having A Retractable<br>Handle<br>CHO, Keon       |

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DATED this 20<sup>th</sup> day of November 2019.

**ASSIGNOR:**

**Jingpin Technologies, LLC**

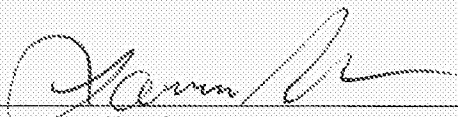
By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

**ASSIGNEE:**

**Intellectual Ventures Assets 161 LLC**

By:   
Name: Lawrence Froeber  
Title: Chief Financial Officer