

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Rajesh I. Balay</td> <td>08/01/2007</td> </tr> <tr> <td>Girish Bhat</td> <td>08/20/2007</td> </tr> <tr> <td>Gregory Lockwood</td> <td>08/07/2007</td> </tr> <tr> <td>Ram Nagarajan</td> <td>07/31/2007</td> </tr> </tbody> </table>		Name	Execution Date	Rajesh I. Balay	08/01/2007	Girish Bhat	08/20/2007	Gregory Lockwood	08/07/2007	Ram Nagarajan	07/31/2007
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Rajesh I. Balay	08/01/2007										
Girish Bhat	08/20/2007										
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Ram Nagarajan	07/31/2007										
RECEIVING PARTY DATA											
Name:	CoSine Communications, Inc.										
Street Address:	61 East Main Street										
Internal Address:	Suite B										
City:	Los Gatos										
State/Country:	CALIFORNIA										
Postal Code:	95031										
PROPERTY NUMBERS Total: 1											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>10949943</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	10949943						
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CORRESPONDENCE DATA											
Fax Number:	(303)362-0575										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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Correspondent Name:	Hamilton, DeSanctis & Cha LLP										
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Address Line 4:	Denver, COLORADO 80206										
ATTORNEY DOCKET NUMBER:	FORT-003800										
NAME OF SUBMITTER:	Michael A. DeSanctis										

OP \$40.00 10949943

Total Attachments: 5

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ASSIGNMENT

WHEREAS, we, **Rajesh I. Balay, Girish Bhat, Gregory Lockwood and Ram Nagarajan**, have invented certain new and useful improvements for which an application entitled "**SCALABLE IP-SERVICES ENABLED MULTICAST FORWARDING WITH EFFICIENT RESOURCE UTILIZATION**" has been made for Letters Patent of the United States and which may be identified in the United States Patent and Trademark Office by Application No. **10/949,943**, filed September 24, 2004, and

WHEREAS, **CoSine Communications, Inc.**, a corporation of the state of Delaware, and having its principal offices at 61 East Main Street, Suite B, Los Gatos, California, 95031, USA (hereafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to the application, any inventions or discoveries described therein and in, to and under any and all Letters Patents to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold, assigned and transferred, and by these presents do hereby sell, assign and transfer unto the Assignee, its successors and assigns:

1. the entire right, title and interest in and to the application, any inventions or discoveries described therein and the Letters Patent(s), both foreign and domestic, that may or shall issue, including all rights under the International Convention, and
2. all proceeds of the application, any inventions or discoveries described therein and the Letters Patent(s) (including but not limited to, damages for pre-patent grant infringement, all license royalties and proceeds of infringement suits); and in and to any and all causes of action (excepting claims upon the United States of America) for past, present, and future infringement of any of the Letters Patent(s), or relating to any inventions or discoveries described therein, including the right to collect royalties and seek injunctive relief, for all such infringements and the right to sue on all such causes of action for their own use and benefit and the use and benefit of their successors, assigns and legal representatives,

We do hereby authorize and request the Commissioner of Patents to issue the Letters Patent(s) to the Assignee in accordance herewith.

We further authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent, in its own name, if desired, in any and all foreign countries, and additionally to claim the filing date of the United States application and/or otherwise take advantage of the provisions of the International Convention.

Girish Bhat
Girish Bhat

8/20/2007
Date

STATE OF CALIFORNIA)
) ss.
COUNTY OF _____)

On this _____ day of _____, before me personally appeared _____, to me known to be the person described in and who executed the foregoing instrument and acknowledged that s/he executed the same as his/her free act and deed.

Notary Public

Gregory Lockwood _____
Date

STATE OF CALIFORNIA)
) ss.
COUNTY OF _____)

On this _____ day of _____, before me personally appeared _____, to me known to be the person described in and who executed the foregoing instrument and acknowledged that s/he executed the same as his/her free act and deed.

Notary Public

Girish Bhat

Date

STATE OF CALIFORNIA)
) ss.
COUNTY OF _____)

On this _____ day of _____, before me personally appeared _____, to me known to be the person described in and who executed the foregoing instrument and acknowledged that s/he executed the same as his/her free act and deed.

Notary Public

Gregory Lockwood
Gregory Lockwood

8/7/07
Date

STATE OF CALIFORNIA)
) ss.
COUNTY OF _____)

On this _____ day of _____, before me personally appeared _____, to me known to be the person described in and who executed the foregoing instrument and acknowledged that s/he executed the same as his/her free act and deed.

Notary Public

N. Nagarajan
Ram Nagarajan

7/31/07
Date

STATE OF CALIFORNIA)
) ss.
COUNTY OF _____)

On this _____ day of _____, before me personally appeared _____, to me known to be the person described in and who executed the foregoing instrument and acknowledged that s/he executed the same as his/her free act and deed.

Notary Public