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To the Director of the United States Patent and Trademark Office. Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Hai Quang TANG IDIRECT INCORPORATED Name: David D. BETTINGER Address: 13865 Sunreise Valley Dr., Herndon, Virginia Gregory Carey BRAUNBERG USA 20171-4661 Additional name(s) of conveying party(ies) attached?

Yes No 04-06-2005 3. Nature of Conveyance: Assignment ☐ Merger ☐ Change of Name ☐ Security Agreement ☐ Other 102973924 Execution Date: March 15, 18, 10, 2005 Additional name(s) and address(es) attached?

Yes No 4. Application number(s) or patent number(s): ☐ This document is being filed together with a new application A. Patent Application No.(s) B. Patent No.(s) 11/012,256 Additional numbers attached? ☐ Yes 5. Name and address of party to whom correspondence 6. Total applications and patents involved: 1 concerning document should be mailed: 7. Total fee (37 CFR 3.41): \$40.00 Customer Number Enclosed 22850 ☐ Authorized to be charged to deposit account Tel. (703) 413-3000 8. Deposit account number: 15-0030 Fax. (703) 413-2220 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. Statement and signature To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Bradley D. Lytle Name of Person Signing Joseph Scafetta, Jr. Registration Number: 40,073 Registration No. 26,803 Total number of pages including this cover sheet: 3 Do not detach this portion Mail documents to be recorded with required cover sheet information to: **Director of the United States Patent and Trademark Office Mail Stop Assignment Recordation Services** Alexandria, Virginia. 22313 04/2005 EEKUBAY1 00000007 11018256 40.00 OF

> PATENT REEL: 016419 FRAME: 0283

Assignment of Application

| WHEREAS, I (WE) | | Maryland USA; David D. BETTINGER, Chantilly, Vir | ginia U |
|---------------------------------------|--|---|-------------|
| | Gregory Carey BRAUNBE | RG, Manassas, Virginia USA | |
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| nave invented certa | un new and userul improvem | ents in: HUB MODEM SYSTEM, METHOD AND A | PPAKA |
| (Application No. | 11/012,256 | , filed December 16, 2004 | |
| | IDIRECT INCORPORATEI | | W |
| _ | | | |
| (hereinafter referre | d to as "ASSIGNEE") havin | g a place of business at: 13865 Sunreise Valley Dr., He | erndon. |

<u>USA 20171-4661</u> is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

06/04

PATENT REEL: 016419 FRAME: 0284 Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of 1940 Duke Street, Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

| Date: | 3/15/2005 | Holp | Hai Tang |
|---------|-----------|-------------------------------|---------------------|
| _ | 3/18/2005 | (Signature of Inventor) Hai Q | ruang TANG |
| _ | | (Signature of Inventor) David | D. BETTINGER |
| Date: | 3/10/05 | Jon feel | Bours |
| | | (Signature of Inventor) Grego | ory Carey BRAUNBERG |
| Date: _ | | (Signature of Inventor) | |
| Date: | | | |
| | | (Signature of Inventor) | |
| Date: | | (Signature of Inventor) | |

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06/04

RECORDED: 04/01/2005

PATENT REEL: 016419 FRAME: 0285