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Atty Ref/Docket No.: 2413.065US1

Patent and Trademark Office

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Vaishnav Janardhan, Henning Schulzrinne	Name: The Trustees of Columbia University in the City of New York
Additional name(s) of conveying party(ies) attached?	Street Address: 535 West 116th Street 412 Low Memorial Library
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3. Nature of conveyance:	Country: United States of America
[X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other	Additional name(s) & address(cs) attached? []Yes [X]No
Execution Date: January 15, 2010, January 15, 2010	
4. Application number(s) or patent number(s):	
If this document is being filed together with a new application, the execution date of the application is:	
A Theore Application No. (a)	D. Davier No. (c)
A. Patent Application No.(s)	B. Patent No.(s)
Serial No. 12/648,105, filed December 28, 2009	
Additional numbers attached? []Yes [X]No	
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
	7. Total fee (37 CFR 3.41):\$ <u>40.00</u>
Name: <u>Suneel Arora</u>	[]Enclosed
Address:	[X]Authorized to be charged to deposit account 19-0743
Schwegman, Lundberg & Woessner, P.A. P.O. Box 2938	
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9. Statement and signature. To the best of my knowledge and belief, the foregoing inform of the original document. Suneel Arora/Reg. No. 42,267 Name of Person Signing	Feb. 17, 2010 Signature Date
Total number of pages including cover sheet: 5	
Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services P.O. Box 1450 Alexandria, VA 22313-1450	

PATENT REEL: 023951 FRAME: 0597

Attorney Docket No. 2413.065USI Client Ref. No. M07-102/2413.065US1/JS/TM

ASSIGNMENT

69-10, 108 th St, Apt 7 L, Forest
PAO West 104th Street, Apr. #. 15 10 12 12

VIN YOMK -

WHEREAS, We, Vaishnay Janardhan, residing at 240 West 104th Street, Apr. #. 3E. New York: New York 10025, and Henning Schulzrinne, residing at 313 West View Ayenue, Leonia, New Jersey 07605, made certain new and useful inventions and improvements which are described in an application for U.S. Letters Patent on December 28. 2009, which application was assigned U.S. patent application serial number 12/648, 105, and is entitled SET-TOP BOX PEER-ASSISTED VIDEO-ON-DEMAND:

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned do hereby:

SELL, ASSIGN AND TRANSFER to The Trustees of Columbia University in the City of New York (the "Assignee"), a corporation of the State of New York, having a place of business at 535 West 116th Street, 412 Low Memorial Library, New York, New York 10027, the entire right, title and interest for the United States and all foreign countries in and to: any and all inventions and improvements which are disclosed in the identified application for U.S. Leners Patent, and which may be further identified below, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries on any of such inventions and/or improvements (including any applications for utility models); all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions and/or improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and to claim priority based on the identified application;

AUTHORIZE AND REQUEST that any attorney associated with U.S. PTO Customer No. 68836 may (directly or through his/her designee) delete, insert, or alter any information identifying this application, or any related application, below, after execution of this Assignment;

Additional Application Information

U.S. Provisional Application Serial No. 60/946,905, filed on June 28, 2007.

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International Application Serial No. PCT/US2008/008077, filed on June 27, 2008.

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, moregage, license or other agreement affecting the rights and/or property herein conveyed has been or will be

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ASSIGNMENT Client Ref. No. 1907-102/2413,065US1/15/TM Assignors: Vasinory Japarchae et al. Tric: SET/TOP BOX PEER-ASSISTED VIDEO-ON-DEMAND Page 2 of 4

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made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the undersigned will (1) execute all provisional, non-provisional, divisional, continuing substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such improvements in the Assignee, or for securing, maintaining and enforcing proper patent protection for such improvements;

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned, and is to extend to the benefit of the successors, assigns and nominees of the Assignce.

AGREED as of the date of my signature below:

STAS-PEPT PATENT STOZYST/TO

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