07 - 17 - 2002 U.S. DEPARTMENT OF COMMERCE FORM PTO-1595 HEET RE(Patent and Trademark Office (Rev. 6-93) OMB No. 0651-0011 (exp. 4/94) 102159195 Tab settings ⇔ ⇔ ⇔ To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies) Tuomas Sandholm and Subhash Suri Name: CombineNet, Inc. Additional name(s) of conveying party(ies) attached? Internal Address: 3. Nature of conveyance: Street Address: 311 S. Craig Street, Suite 100 ☐ Merger ■ Assignment City: Pittsburgh ☐ Security Agreement ☐ Change of Name State: PA ZIP: 15213 □ Other Additional name(s) & address(es) attached? Execution Date: June 20, 2002 and May 24, 2002 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: _ B. Patent No.(s) A. Patent Application No.(s) 09/789,480, filed February 20, 2001. Additional numbers attached?

Yes

No 6. Total number of applications and 5. Name and address of party to whom correspondence patents involved: concerning document should be mailed: 7. Total fee (37 CFR 3.41).....\$ 40.00 Name: Randall A. Notzen Internal Address: Webb Ziesenheim Logsdon ☑ Enclosed Orkin & Hanson, P.C. □ Authorized to be charged to deposit account Street Address: 700 Koppers Building 436 Seventh Avenue 8. Deposit account number: City: Pittsburgh State: PA ZIP: 15219-1818 (Attach triplicate 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 criginal document. July 8, 2002 Randall A. Notzen, No. 36
Name of Person Signing 36,882 Date Signature and document Total number of pages including cover sheet, attachments Mail documents to be recorded with required cover sheet information to: Commissioner for Patents, U.S. Patent and Trademark Office Office of Public Records, Crystal Gateway 4, Room 335 Washington, D.C. 20231 d7/16/2002 LMUELLER 00000016 09789440 di F0:581 .0.00 DP

ASSIGNMENT

V/HEREAS, WE, Tuomas SANDHOLM and Subhash SURL residing in Pittsburgh, Pennsylvania, and Goleta, California, respectively, have invented certain new and useful improvements in "Method for Optimal Winner Determination in Combinatorial Auctions" for which a patent application was filed in the United States Patent and Trademark Office on February 20, 2001 and bears Serial No. 09/789,480.

AND, WHEREAS, CombineNet, Inc., a corporation of Delaware, having a place of business at 31 I.S. Craig Street, Suite 100, Pittsburgh, Pennsylvania 15213, hereinafter called the "Assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed.

NOW, THEREFORE, for good and valuable consideration paid to us by said Assignce, the receipt of which is hereby acknowledged, we do hereby assign, sell, transfer, and set over unto said Assignee the entire right, title and interest in and to said application and the inventions and ir approvements therein disclosed for the United States and all foreign countries and any Letters Pater t which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, said Letters Patent and any and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this assignment not been made.

The Commissioner for Patents is requested to issue such Letters Patent in accordance here with. We covenant that we are the lawful owners of the said application, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said inventions or improvements or any of them, and that we have the full right to make this assignment.

And for the consideration aforesaid, we agree jointly and individually that we will communicate to said Assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said Assignee or by counsel for said Assignee, to assist or enable said Assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said Assignee.

Date	6/20/02	(a)
		Tuomas Sandholm
Dute	5/24/02	Sublash Suri
		Subhash Suri

RECORDED: 07/15/2002

PATENT REEL: 013083 FRAME: 0101