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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

To the Honorable Director of Patents and 10142	4236 ial documents or copy thereof.
Name of conveying party(ies):	Name and address of receiving party(ies):
(a) Kalman, Robert F.	Name: <u>Luminous Networks, Inc.</u>
(b) Fan, Jason C.	Street Address: 10460 Bubb Road
(c) Barry, Charles F.	City: <u>Cupertino</u> State: <u>California</u> Zip: <u>95014</u>
(d) Jogalekar, Prasad P.	Country: <u>U.S.A.</u>
e) Bannai, Vinay K. Additional name(s) of conveying party(ies) attached? Yes No	1
3. Nature of Conveyance:	Name and address of receiving party(ies):
Assignment Merger	Name:
Sequestry Agreement Observer of Name	Street Address:
Security Agreement Change of Name	City: State: Zip:
Other	Country:
Execution Date: June 30, 2000	
A. Patent Application No.(s) - 09/519,024 Title: Selecting A Routing Direction In A Communications Network Using A Cost Metric	B. Patent No.(s)
Title: Selecting A Routing Direction In A Communications	
Title: Selecting A Routing Direction In A Communications Network Using A Cost Metric Additional number 1.5. Name and address of party to whom correspondence	
Title: Selecting A Routing Direction In A Communications Network Using A Cost Metric Additional numbers 5. Name and address of party to whom correspondence concerning document should be mailed:	bers attached? Yes No
Title: Selecting A Routing Direction In A Communications Network Using A Cost Metric Additional num Name and address of party to whom correspondence concerning document should be mailed: Name: Brian D. Ogonowsky	bers attached? Yes No
Title: Selecting A Routing Direction In A Communications Network Using A Cost Metric Additional num Name and address of party to whom correspondence concerning document should be mailed: Name: Brian D. Ogonowsky	bers attached? Yes No
Title: Selecting A Routing Direction In A Communications Network Using A Cost Metric Additional num 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Brian D. Ogonowsky Internal Address: SKJERVEN, MORRILL, MacPHERSON,	bers attached? Yes No 6. Total number of applications and patents involved: 1
Title: Selecting A Routing Direction In A Communications Network Using A Cost Metric Additional num 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Brian D. Ogonowsky Internal Address: SKJERVEN, MORRILL, MacPHERSON, FRANKLIN & FRIEL LLP Street Address: 25 METRO DRIVE, SUITE 700	bers attached? Yes No 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41):
Title: Selecting A Routing Direction In A Communications Network Using A Cost Metric Additional num 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Brian D. Ogonowsky Internal Address: SKJERVEN, MORRILL, MacPHERSON, FRANKLIN & FRIEL LLP Street Address: 25 METRO DRIVE, SUITE 700 City SAN JOSE State CA ZIP 95110	bers attached? Yes No 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41):
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Title: Selecting A Routing Direction In A Communications Network Using A Cost Metric Additional num 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Brian D. Ogonowsky Internal Address: SKJERVEN, MORRILL, MacPHERSON, FRANKLIN & FRIEL LLP Street Address: 25 METRO DRIVE, SUITE 700 City SAN JOSE State CA ZIP 95110	bers attached? Yes No 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41):
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Title: Selecting A Routing Direction In A Communications Network Using A Cost Metric Additional num 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Brian D. Ogonowsky Internal Address: SKJERVEN, MORRILL, MacPHERSON, FRANKLIN & FRIEL LLP Street Address: 25 METRO DRIVE, SUITE 700 City SAN JOSE State CA ZIP 95110 DO NO 3. Statement and signature. To the best of my knowledge and belief, the foregoing information in the state of th	bers attached? Yes No 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41):

Attorney Docket No.: M-8559 US

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we

Robert F. Kalman, Jason C. Fan, Charles F. Barry, Prasad P. Jogalekar, and Vinay K. Bannai

hereby sell, assign and transfer to Luminous Networks, Inc., a California corporation, having a place of business at 10460 Bubb Road, Cupertino, CA 95014, its successors and assigns, the entire right, title and interest throughout the world in our invention in

Selecting A Routing Direction In A Communications Network Using A Cost Metric

for which we filed a United States Patent Application on March 3, 2000, and now has Serial No. 09/519,024, and all patent applications and patents of every country for said invention. including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request the Commissioner of Patents and Trademarks to issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this 30 day of JUNE, 2000.

Robert & latinum

On VINE 30, 2000 before me, MARIE E BRESANI (Notary) personally appeared Robert F. Kalman personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

MARIE E BRESANI Comm. # 1151370 NOTARY PUBLIC - CALIFORNIA Santa Clara County My Comm. Expires Aug. 18, 2001

Marie & Brisani
SIGNATURE OF NOTARY

Executed this 30th day of 50	Ja & M.
	Jason C. Fan
	Jason C. Fan
State of (ALIFORNIA)) ss. County of SANTA CLARA	
	WARLE F BREZZAM
(Notary) personally appeared Jason C. Fan personal basis of satisfactory evidence to be the person winstrument and acknowledged to me that he exerthat by his signature on the instrument the personacted, executed the instrument.	whose name is subscribed to the within ecuted the same in his authorized capacity, and
W	ITNESS my hand and official seal.
MARIE E BRESAMI Comm. # 1151370 NOTARY PUBLIC CALIFORNIA Santa Clara Courry My Comm. Expires Rug. 15, 7001	Maru C. Bresani GNATURE OF NOTARY
Executed this 30 th day of	Charles F. Barry
State of (ALIFORNIA) State of SANTA (LARA)	
On VIVE 30, 2000 before me (Notary) personally appeared Charles F. Barry the basis of satisfactory evidence to be the person instrument and acknowledged to me that he exerthat by his signature on the instrument the person acted, executed the instrument.	personally known to me or proved to me on on whose name is subscribed to the within ecuted the same in his authorized capacity, and
W	ITNESS my hand and official seal.

MARIE E BRESANT
Comm. # 1151370
NOTARY PUBLIC - CALIFORNIA
Santa Clara County
My Commi. Expires Aug. 15, 1001

Executed this 30 th day of	June , 2000. Jogalku 19. Prasad P. Jogalekar	
(Notary) personally appeared Prasad P. Joga the basis of satisfactory evidence to be the p instrument and acknowledged to me that he	me, Manu & Rusanu alekar personally known to me or proved to me on berson whose name is subscribed to the within executed the same in his authorized capacity, and erson, or the entity upon behalf of which the	
MARIE E BRESANI Comm. # 115:370 NOTARY PUBLIC CALIFORNIA Santa Clara County My Comm. Expires Aug. 15, 100. Executed this 300 day of 15.	WITNESS my hand and official seal. Marie & Bresani SIGNATURE OF NOTARY , 2000. Winay K. Bannai	
State of AUFORNIA) Ss. County of TANTA CLARA On NUNE 30 TO 2000 before me, MARIE E BRESANI (Notary) personally appeared Vinay K. Bannai personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.		
MARIE E BRESANI Comm. # 1151370 NOTARY PUBLIC - CALIFORNIA Santa Clara County My Comm. Expires Aug. 15, 100	WITNESS my hand and official seal. Marie & Brisani SIGNATURE OF NOTARY	

RECORDED: 07/11/2000