

MRD 11-6-98

11-17-1998



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Patent Application Number(s)

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number

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PCT PCT PCT
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Number of Properties

Enter the total number of properties involved.

#

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$

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Deposit Account

Enclosed ☒ Deposit Account ☐

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

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Authorization to charge additional fees:

Yes ☒ No ☐

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. Charges to deposit account are authorized, as indicated herein.

Thomas S. Birney - 30,025

Name of Person Signing

Signature

November 6, 1998

Date

ASSIGNMENT

WHEREAS, Macro-Vision Communications, Inc., a Delaware corporation, whose address is 5490 Conestoga Court, Boulder, Colorado 80301 (the "Assignor") is the owner of record in the U.S. Patent Office of the following U.S. patent applications:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Inventor</u>	<u>Title</u>
09/020,706	02/09/98	Wu et al.	Temperature Insensitive Polarization Filter
09/037,937	03/10/98	Wu et al.	N x M Optical Wavelength Routing Switch
08/979,525	08/08/97	Wu et al.	1 x N Digitally Programmable Optical Routing Switch
09/063,611	04/21/98	Wu et al.	N x M Digitally Programmable Optical Routing Switch
08/982,978	12/02/97	Wu et al.	Switchable Wavelength Router

WHEREAS, the Assignor is also the owner of the following international patent applications under the Patent Cooperation Treaty (PCT):

<u>Application No.</u>	<u>Filing Date</u>	<u>Inventor</u>	<u>Title</u>
PCT/US98/06089	01/05/98	Wu et al.	Switchable Wavelength Router
PCT/US98/06982	04/07/98	Wu et al.	N x M Optical Wavelength Routing Switch
PCT/US98/06312	03/30/98	Wu et al.	1 x M Digitally Programmable Optical Routing . Switch

WHEREAS, Chorum Technologies Inc., a Delaware corporation, whose address is 1155 East Collins Boulevard, Suite 200, Richardson, Texas 75081 (the "Assignee"), is desirous of acquiring the entire right, title and interest in and to the aforesaid inventions and patent applications in the United States and in any and all foreign countries.

THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) paid by the Assignee to the Assignor, and other good and valuable consideration, receipt whereof is hereby expressly acknowledged, the Assignor hereby sells, transfers and sets over to the Assignee, and its successors, legal representatives and assigns, the entire right, title and

interest in and to the aforesaid inventions and patent applications for the territory of the United States of America and for all foreign countries, and to all letters patent, divisions, continuations, continuations-in-part, substitutions, reissues, re-examinations and extensions to be obtained therefor, including the right to sue for past infringement.

The Assignor further agrees to cooperate with the Assignee in obtaining and sustaining any or all such letters patent, but at the expense of the Assignee. The Commissioner of Patents is hereby authorized and requested to issue the letters patent solely in accordance with this assignment, to the Assignee, its successors, legal representatives and assigns, as the assignee of the entire right, title and interest therein.

Further, the Assignor agrees to communicate to the Assignee, or its representatives, any facts known to the Assignor respecting the inventions, and testify in any legal proceedings, sign all lawful papers, execute all division, continuation, continuation-in-part, substitution, reissue, re-examinations and extension applications, execute all necessary assignment papers to cause any and all of said letters patent to be issued to the Assignee, make all rightful oaths and generally do everything necessary or desirable to aid the Assignee, its successors and assigns, to obtain and enforce proper protection for the inventions in the United States and in any and all foreign countries.

Macro-Vision Communications, Inc.

By: Jian-Yu Liu
Jian-Yu Liu, Vice President

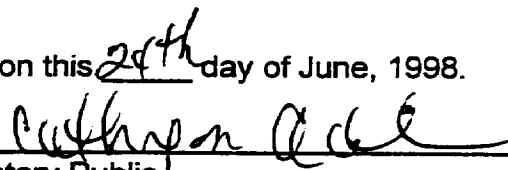
STATE OF COLORADO

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§
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COUNTY OF BOULDER

Before me, the undersigned authority, on this day personally appeared Jian-Yu Liu, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, in the capacity therein stated.

Given under my hand and seal of office on this 24th day of June, 1998.



Notary Public

My commission expires October 9, 1999
2960 Diagonal Highway, Boulder, CO 80301