

9/3/03

(REQUEST)
ASSISTANT

09-05-2003



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ID#102159580A)
SER SHEET

C

To: Honorable Commissioner of Patents and Trademarks:

Please record the attached original document(s) or copy thereof.

1. Name of conveying party(ies)
 - a) JING-JONG PAN
 - b) MIN ZHOU
 - c) HONG-XI ZHANG
 - d) FENG-QING ZHOU

2. Name and address of receiving party(ies):
 - a) Name: LIGHTWAVES 2020, INC.
 - b) Address: 1323 Great Mall Drive, Milpitas, CA 95035-8037

3. Nature of conveyance

<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name
<input type="checkbox"/> Other _____	<input type="checkbox"/> License Agreement

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OPR/FINANCE

Execution Date(s): May 17 & 18, 2002, respectively

4. Application Number(s) or Patent Number(s): 10/068,794

The title of the (new) application is:

MINIATURE CIRCULATOR ARRAY DEVICES AND METHODS OF MAKING THE SAME

5. Please send all correspondence concerning this (these) documents to:

**Customer No. 26541
Ritter, Lang & Kaplan LLP
12930 Saratoga Ave., Suite D1
Saratoga, CA 95070
(408) 446-8690 (PH)
(408) 446-8691 (FX)**

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

- Enclosed
- Any deficiencies are hereby authorized to be charged to Deposit Account No. 50-1652 (Order No. LWAVP009)

8. 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.

Date: August 28, 2003

GARY T. AKA
Registration No. 29,038

09/04/2003 DBYRNE 00000052 10068794

01 FC:8021 40.00 DP

Attorney Docket No. LWAVP009

(Revised 01/96)

ASSIGNMENT OF UTILITY PATENT APPLICATION

JOINT

WHEREAS, **Jing-Jong Pan**, of 978 Westridge Drive, Milpitas, California 95035; **Ming Zhou**, of 1515 Stubbins Way, San Jose, California 95132; **Hong-Xi Zhang**, of 1290 Quincy Drive, No. 5, San Jose, California 95132; and **Feng-Qing Zhou**, of 1199 Burnham Drive, San Jose, California 95132; hereinafter referred to as "Assignors", are the inventors of the invention described and set forth in the below-identified utility patent application:

Title of Invention: **MINIATURE CIRCULATOR ARRAY
DEVICES AND METHODS OF MAKING THE
SAME**

Filing Date: **February 6, 2002**

Application No.: **10/068,794; and**

WHEREAS, **Lightwaves 2020, Inc.**, a corporation of the State of California, located at 1323 Great Mall Drive, Milpitas, California 95035, hereinafter referred to as "Assignee," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on any patent application claiming priority from the same;


For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that Assignors will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain

Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the date indicated.

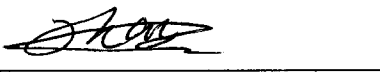
Dated: 5/17/02


Jing-Jong Pan

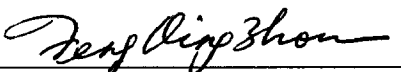
Dated: 5/17/02


Ming Zhou

Dated: 5/18/2002

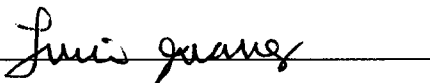

Hong-Xi Zhang

Dated: 5/17/02


Feng-Qing Zhou

Witnesses:





JEFFREY OLSEN, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS