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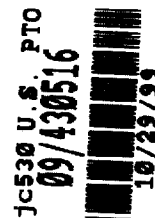
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In re patent application of:

Inventors: TAKASHI MASAKI; JUN FUTAKUCHIYA; KENZO YASUDA;
HIDENORI ISHIWATA; SHINJI SAITO; SHINYA MIYAJI;
TSUTOMU AMAKAWA; TOSHIHIRO SUGISAWA

For: HEATER UNIT FOR SEMICONDUCTOR PROCESSING

Assistant Commissioner for Patents
Washington, D.C. 20231



Please record the attached original document or copy thereof and return the recorded instrument to the undersigned.

1. Name of party(ies) conveying an interest: (1) **TAKASHI MASAKI**, c/o NHK Spring Co., Ltd., 10 Fukuura 3-chome, Kanazawa-ku, Yokohama-shi, Kanagawa-ken, JAPAN; (2) **JUN FUTAKUCHIYA**, c/o NHK Spring Co., Ltd., 10 Fukuura 3-chome, Kanazawa-ku, Yokohama-shi, Kanagawa-ken, JAPAN; (3) **KENZO YASUDA**, c/o NHK Spring Co., Ltd., 10 Fukuura 3-chome, Kanazawa-ku, Yokohama-shi, Kanagawa-ken, JAPAN; (4) **HIDENORI ISHIWATA**, c/o NHK Spring Co., Ltd., 10 Fukuura 3-chome, Kanazawa-ku, Yokohama-shi, Kanagawa-ken, JAPAN; (5) **SHINJI SAITO**, c/o NHK Spring Co., Ltd., 10 Fukuura 3-chome, Kanazawa-ku, Yokohama-shi, Kanagawa-ken, JAPAN; (6) **SHINYA MIYAJI**, c/o NHK Spring Co., Ltd., 10 Fukuura 3-chome, Kanazawa-ku, Yokohama-shi, Kanagawa-ken, JAPAN; (7) **TSUTOMU AMAKAWA**, c/o Taiyo Electric Heater Co., Ltd., 18-14 Ayase 1-chome, Adachi-ku, Tokyo, Japan, and; (8) **TOSHIHIRO SUGISAWA**, c/o Taiyo Electric Heater Co., Ltd., 18-14 Ayase 1-chome, Adachi-ku, Tokyo, Japan.

2. Name and address of parties receiving an interest: (1) **NHK SPRING CO., LTD.**, a corporation of Japan, having its principal place of business at 10 Fukuura 3-chome, Kanazawa-ku, Yokohama-shi, Kanagawa-ken, JAPAN and (2) **TAIYO ELECTRIC HEATER CO., LTD.**, a corporation of Japan, having its principal place of business at 18-14 Ayase 1-chome, Adachi-ku, Tokyo, Japan.

3. Description of the interest conveyed: Assignment of undivided half interest
Date of execution of attached document: October 22, 1999

4. Application number(s) or patent number(s). Additional sheet attached? No

If this document is being filed together with a new application, the execution date of the application is: October 22, 1999

5. Name and address of party to whom correspondence concerning document should be mailed:

MARGER JOHNSON & McCOLLOM, P.C.
1030 S.W. Morrison Street
Portland, Oregon 97205 Telephone: (503) 222-3613

6. Number of applications and patents involved: 1

7. Enclosed is our check for \$40

8. Any deficiency or overpayment should be charged or credited to deposit account number 13-1703.

9. 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.

Dated: 29 Oct 1999

Customer No. 20575

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(40.00 OP)

MARGER JOHNSON & McCOLLOM, P.C.
1030 S.W. Morrison Street
Portland, Oregon 97205
Telephone: (503) 222-3613

Respectfully submitted,
MARGER JOHNSON & McCOLLOM, P.C.

By
Alexander C. Johnson, Jr.
Registration No. 29,396

cc: Yoichi Oshima (#660US)

Total number of pages comprising cover sheet and attached assignment: 3

PATENT
REEL: 010356 FRAME: 0096

Assignment

WHEREAS, we, Takashi MASAKI, Jun FUTAKUCHIYA, Kenzo YASUDA, Hidenori ISHIWATA, Shinji SAITO, and Shinya MIYAJI, c/o NHK SPRING CO., LTD., 1-49 Numame 2-chome, Isehara-shi, Kanagawa-ken, JAPAN, and Tsutomu AMAKAWA and Toshihiro SUGISAWA, c/o TAIYO ELECTRIC HEATER CO., LTD., 18-14 Ayase 1-chome, Adachi-ku, Tokyo, Japan have invented a new and useful " HEATER UNIT FOR SEMICONDUCTOR PROCESSING " for which on October 22, 1999 executed application papers for United States Letters Patent thereon, Serial No. _____ Filed _____ ; and

WHEREAS, NHK SPRING CO., LTD. and TAIYO ELECTRIC HEATER CO., LTD., corporations of Japan having their principal places of business at 10 Fukuura 3-chome, Kanazawa-ku, Yokohama-shi, Kanagawa, JAPAN and 18-14 Ayase 1-chome, Adachi-ku, Tokyo, Japan are desirous of acquiring the exclusive right, title and interest in and to said invention and in and to the Letters Patent to be granted and issued therefor in the United States of America and its territories and possessions, and all countries foreign thereto:

NOW, THEREFORE, for a valuable consideration, the receipt of which is hereby acknowledged, the said Takashi MASAKI, Jun FUTAKUCHIYA, Kenzo YASUDA, Hidenori ISHIWATA, Shinji SAITO, Shinya MIYAJI, Tsutomu AMAKAWA, and Toshihiro SUGISAWA do hereby sell assign, transfer, and set over unto the said NHK SPRING CO., LTD. and TAIYO ELECTRIC HEATER CO., LTD., their successors and assigns, the full and exclusive right, title, and interest in and to the said invention, and in and to any and all Letters Patent to be granted and issued therefor, not only for, to and in the United States of America, its territories and possessions, but for, to and in all other countries including all priority rights under the International Convention; and thereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said NHK SPRING CO., LTD. and TAIYO ELECTRIC HEATER CO., LTD., their successors and assigns in accordance with this assignment.

WITNESS at Kanagawa-ken, JAPAN

this 22nd day of October, 1999

Takashi Masaki
Takashi MASAKI

Jun Futakuchiya
Jun FUTAKUCHIYA

Kenzo Yasuda
Kenzo YASUDA

Hidenori Ishiwata
Hidenori ISHIWATA


Shinji Saito
Shinji SAITO

Shinya Miyaji
Shinya MIYAJI

WITNESS at Tokyo, JAPAN

this 22nd day of October, 1999


Tsutomu AMAKAWA


Toshihiro SUGISAWA