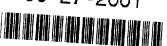
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documents or copy thereof.

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2. Name and address of receiving party(ies): 1. Name of conveying party(ies): (If multiple assignors, list numerically) Name: ASM JAPAN K.K. Akira Shimizu Internal Address: l. Street Address: 23-1, 6-chome, Nagayama Fumitoshi Ozaki 2. City: Tami-shi, Tokyo Country: Japan ZIP: 206-005 Additional name(s) of conveying party(ies) attached? Additional name(s) of receiving party(ies) attached? Yes No () (X) Yes () (X) No Nature of conveyance: Application number(s) or Patent number(s): (X) Assignment (X) Application(s) filed herewith Execution Date(s): June 5, 2001 () Merger Security Agreement Change of Name () Patent Application No .: ()Other: Execution Date: (If multiple assignors, list execution Patent No .: () dates in numerical order corresponding to numbers indicated in Issue Date: 1 above) 1. June 5, 2001 1. June 5, 2001 Additional numbers attached? () Yes (X) No Total fee (37 CFR 3.41): \$40 Name and address of party to whom correspondence concerning document should be mailed: (X) Enclosed Authorized to be charged to deposit account if any Name: Joseph J. Mallon (X) KNOBBE, MARTENS, OLSON & BEAR, LLP additional fees are required, or to credit any overpayment Customer No. 20,995 Internal Address: Sixteenth Floor Street Address: 620 Newport Center Drive 8. Deposit account number: 11-1410 City: Newport Beach State: CA ZIP: 92660 Attorney's Docket No.: ASMJP.095AUS Please charge this account for any additional fees which may be required, or credit any overpayment to this account. Total number of applications and patents involved: 1 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. Joseph J. Mallon Name of Person Signing 39,287

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Application No.: Unknown Filing Date: Herewith

PATENT Client Code: ASMJP.095AUS

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ASSIGNMENT

WHEREAS, We, Akira Shimizu, a Japanese citizen, residing at 23-1, 6-chome, Nagayama, Tami-shi, Tokyo 206-0025 Japan, and Fumitoshi Ozaki, a Japanese citizen, residing at 23-1, 6-chome, Nagayama, Tami-shi, Tokyo 206-0025 Japan, have invented certain new and useful improvements in a METHOD FOR MANUFACTURING A SEMICONDUCTOR DEVICE for which we have executed an application for Letters Patent in the United States, herewith;

AND WHEREAS, ASM JAPAN K.K. (hereinafter "ASSIGNEE"), a Japanese Corporation, with its principal place of business at 23-1, 6-chome, Nagayama, Tami-shi, Tokyo 206-0025 Japan, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filled for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and recissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

DATED: June S, 2001

Akira Shimizu

DATED: June 5, 2001

RECORDED: 06/14/2001

Furnitoshi Ozaki

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