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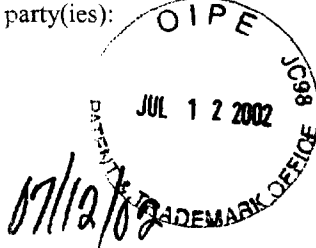
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U.S. DEPARTMENT OF COMMERCE
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Akihisa WANIBE
Noriaki OKAZAWA
Yoshinao MIYATA
Toshinao SHINBO
Tetsuya AKASU
Hisashi AKACHI



2. Name and address of receiving party(ies):

SEIKO EPSON CORPORATION
4-1, Nishi-shinjuku 2-chome, Shinjuku-ku, Tokyo, Japan

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: June 4, 2002, June 4, 2002, June 4, 2002,
June 4, 2002, June 4, 2002 and June 13, 2002, respectively

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

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

A. Patent Application No.(s)
10/122,407

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

SUGHRUE MION, PLLC
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3213

6. Total number of applications and patents involved:

1

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

- ☒ Enclosed.
☐ Authorized to be charged to Deposit Account No. 19-4880.

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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.

Darryl Mexic
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Reg. No. 23,063

July 12, 2002

Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks

Box Assignment

Washington, D.C. 20231

07/17/2002 DBYRME 00000122 10122407

01 FC:581

40.00 CP

PATENT
REEL: 013084 FRAME: 0819

譲渡証 (Translation/日本語訳)

下記に署名した私、

鯨部 晃久、岡沢 宣昭、宮田 佳直、新保 俊尚、赤須 徹也、赤地 尚 は、

ある発明を創出し、これについて合衆国特許出願は

☐ ここに私により署名され、
☒ 2002 年 4 月 16 日に出願され、出願番号10/122407が交付され、

その発明は

シリコンウエハーのブレイクパターン、シリコン基板、及びブレイクパターンの作製方法

という名称である。そして、ここにその受領を認める対価で：私は、当該発明／出願について、合衆国とその属領及び全ての外国に於ける全面的かつ独占的な権利；合衆国とその属領及び全ての外国に於いて発行される特許証に関わる全ての権利、所有権、利益；一部継続出願、継続出願、分割出願、差替え出願、再発行出願、特許期間延長等、合衆国とその属領及び全ての外国に於いて既に出願されたか若しくは今後出願される特許に関わる全ての権利；そして、国際条約、同盟、契約、法令、協定（将来制定されるものを含む）に基づく全ての優先権を伴う一切の権利；を、日本国東京都新宿区西新宿 2 丁目 4 番 1 号に住所を有するセイコーエプソン株式会社、その後継者、譲受人及び法定代理人に対して、売却、譲渡、移転するものとする。

さらに、私は、セイコーエプソン株式会社（以下譲受人と言う）が単数ないしは複数の当該発明（以下当該発明という）に関わる特許権を、自己の名により、合衆国とその属領及び全ての外国に於いて出願し、特許を受けること；またこの譲渡証の意図と目的を誠実に実行することを求められた場合、下記に署名した私が、当該譲受人、その後継者、その被譲渡者、及び法定代理人の費用負担にて、一部継続出願、継続出願、分割出願、差替え出願、再発行出願、特許期間延長等を行い、合法的宣誓書、譲渡証、委任状等の書類を作成し、あらゆる法的または準法的訴訟手続に於いて証言を行うこと；当該発明とその経緯に関連して、下記に署名した私が知り得た全ての事実を、当該譲受人、後継者、被譲渡者、及び法定代理人に連絡すること；そして当該譲受人、後継者、被譲渡者、及び法定代理人が、当該発明の特許権の適切な保護、維持、権利行使するために望ましいと考慮すること、また、当該発明に関わる特許出願に際し、当該譲受人、後継者、被譲渡者、及び法定代理人に対して法的権限を付与することが望ましいと考慮することについて、可能な限り行うことを承諾する。

Assignment

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned,

Akihisa WANIBE, Noriaki OKAZAWA, Yoshinao MIYATA, Toshinao SHINBO, Tetsuya AKASU, Hisashi AKACHI,

who have created a certain invention for which an application for United States Letters Patent

☐ executed by me on even date herewith,
☒ filed on April 16, 2002 and assigned Serial No. 10/122407,

and entitled:

SILICON WAFER BREAK PATTERN, SILICON SUBSTRATE, AND METHOD OF GENERATING SILICON WAFER BREAK PATTERN

Do hereby sell, assign and transfer to Seiko Epson Corporation, a corporation of Japan, having a place of business at 4-1, Nishi-shinjuku 2-chome, Shinjuku-ku, Tokyo, Japan, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties, including all future conventions, unions, agreements, acts, and treaties;

Agree that Seiko Epson Corporation, hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, its successors, assigns, or legal representatives; and

そして、私は、この書面により譲渡された権利や財産に影響する、如何なる譲渡、授權、抵当権、ライセンス等その他の協定も他の第三者との間で行っていないこと；下記に署名した私によって、この書面に記載されている権利が所有されていることを、当該譲受人、後継者、被譲渡者、及び法定代理人に対して誓約するものである。

さらに、下記に署名した私はこの譲渡書は英語の部分の表現によってのみ解釈されることに同意する。

上記を証明するため、私は下記日付で署名する。

Covenant with said Assignee, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

I, the undersigned do further agree that this Assignment is to be construed solely according to the terms of the English language portions thereof.

IN TESTIMONY WHEREOF I have hereunto set MY/OUR signature seal on the date indicated below.

唯一または第一発明者名 鰐部 晃久	Full name of sole or first inventor Akihisa WANIBE
発明者の署名 鰐部 晃久	Inventor's signature Wanibe Akihisa
日付 2002年6月4日	Date Jun/4/2002
第二共同発明者 (いる場合) 岡沢 宣昭	Full name of second joint inventor, if any Noriaki OKAZAWA
第二共同発明者の署名 岡沢 宣昭	Second Inventor's signature Noriaki Okazawa
日付 2002年6月4日	Date Jun/4/2002
第三共同発明者 (いる場合) 宮田 佳直	Full name of third joint inventor, if any Yoshinao MIYATA
第三共同発明者の署名 宮田 佳直	Third Inventor's signature Yoshinao Miyata
日付 2002年6月4日	Date Jun. 4, 2002
第四共同発明者 (いる場合) 新保 俊尚	Full name of fourth joint inventor, if any Toshinao SHINBO
第四共同発明者の署名 新保 俊尚	Fourth Inventor's signature Toshinao Shinbo
日付 2002年6月4日	Date Jun/4/2002
第五共同発明者 (いる場合) 赤須 徹也	Full name of fifth joint inventor, if any Tetsuya AKASU
第五共同発明者の署名 赤須 徹也	Fifth Inventor's signature Tetsuya AKASU
日付 2002年6月4日	Date Jun/4/2002
第六共同発明者 (いる場合) 赤地 尚	Full name of sixth joint inventor, if any Hisashi AKACHI
第六共同発明者の署名 赤地 尚	Sixth Inventor's signature Hisashi Akachi
日付 2002年6月13日	Date JUN. 13, 2002
第七共同発明者 (いる場合)	Full name of seventh joint inventor, if any
第七共同発明者の署名	Seventh Inventor's signature
日付	Date
第八共同発明者 (いる場合)	Full name of eighth joint inventor, if any
第八共同発明者の署名	Eighth Inventor's signature
日付	Date