

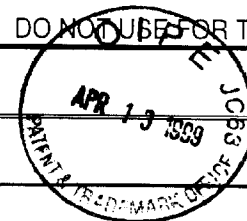
04-20-1999

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101016144

F.



TO THE ASSISTANT COMMISSIONER OF
SIR: PLEASE RECORD THE ATTACHED OR.

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. MOMOCHI, Takeshi
3. SHIOZAKI, Masahito
5. SAGARA, Makoto
7.

2. SUGIYAMA, Haruhito
4. MATSUMOTO, Michio
6.
8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: TOSHIBA KIKAI KABUSHIKI KAISHA

ADDRESS: 2-11, 4-chome Ginza, Chuo-ku, Tokyo 104-0061 Japan

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST

EXEC. DATE: 1) & 3) Jan. 25, 2) Jan. 26, 4) Jan. 28 and 5) Jan. 27, 1999

☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION☐ SECURITY ☐ MERGER ☐ OTHER:

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) 1) & 3) Jan. 25, 2) Jan. 26, 4) Jan. 28 and 5) Jan. 27, 1999

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NOA. PAT. APP. NO.(S)
series code/serial
no

M#

1st INVENTOR
if not in item 1

B. PATENT NO(S)

M#

1st INVENTOR
if not in item 1

09/241,373

258320

5. Name & Address of Party to Whom Correspondence
Concerning Document Should be Mailed:

Pillsbury Madison & Sutro LLP
Intellectual Property Group
1100 NEW YORK AVENUE, N.W.
NINTH FLOOR, EAST TOWER
WASHINGTON, D.C. 20005-3918

6. NUMBER INVOLVED:

APPLNS 1 + PATS _____ = TOTAL 1

7. AMOUNT OF FEE ENCLOSED: (Code 581)

ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT:

PMS 258320

98/8090-TMC-US

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975

UNDER ORDER NO

7356

258320

MATTER NO.

CLIENT REF.

dup. sheet not required

CLIENT NO.

MATTER NO.

9. 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.

04/14/1999 TL0011 00000135 09241373

01 FC:581

[Signature] (40.00 OP)

Signature

10. Total number of pages including this
cover sheet, attachments and document
(do not file dup. Cover sheet)

4

Attorney: Glenn J. Perry

Reg. No. 28,458

Atty/Sec: GJP/mhn

TEL: (202) 861-3070

Date: April 13, 1999

FAX: (202) 822-0944

FILE WITH PTO RETURN RECEIPT (PAT-103A)

WHEREAS:

1) Takeshi MOMOCHI 2) Haruhito SUGIYAMA

3) Masahito SHIOZAKI 4) Michio MATUMOTO 5) Makoto SAGARA,

whose full post office address(es) is (are),

1) 36-9, Hongo-cho, Numazu-shi, Shizuoka 410-0817 Japan

2) 1-1-43 Ninooka, Gotemba-shi, Shizuoka 412-0025 Japan

3) 508, Eki-Nan Heights 3-3-23 Yoneyama, Niigata-shi, Niigata
950-0916 Japan

4) 55-19, Negoya, Numazu-shi, Shizuoka 410-0309 Japan

5) 11-15, Asahigaoka, Mishima-shi, Shizuoka 411-0000 Japan

(hereinafter referred to as ASSIGNOR), has/have invented
certain new and useful improvements in an invention entitled:

CONTROL APPARATUS FOR DRILLING MACHINE

AND DRILLING METHOD

(a) for which an application for United States Letters Patent
is being executed and filed concurrently herewith;

(b) for which an application for United States Letters Patent
was executed on _____;

(c) for which an application for United States Letters Patent
was filed on _____,
Serial No. _____;

(d) for which United States Letters Patent No. _____
has issued on _____.

WHEREAS:

TOSHIBA KIKAI KABUSHIKI KAISHA

2-11, 4-chome Ginza, Chuo-ku, Tokyo 104-0061 Japan

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire
interest in, to and under said invention and in, to and under Letters
Patent or similar legal protection to be obtained therefor in the United
States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt and sufficiency of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE, its lawful successors and assigns, the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, continuation-in-part, reexamination, renewal, substitute, extension or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted; and authorize and request the Commissioner of Patent of the United States and any official of any foreign country whose duty it is to issue patents of legal equivalents thereto, to issue same for this invention to ASSIGNEE, its lawful successors and assigns.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/WE have hereunto set hand and signed on the date indicated below:

<u>INVENTOR(S)</u>	<u>DATE SIGNED</u>	<u>WITNESS(ES)</u>
1) <u>J. Momochi</u>	<u>25 Jan 1999</u>	<u>M. Shiozaki</u>
2) <u>H. Sugiyama</u>	<u>26 Jan 1999</u>	<u>J. Momochi</u>
3) <u>M. Shiozaki</u>	<u>25 Jan 1999</u>	<u>J. Momochi</u>
4) <u>M. Matsumoto</u>	<u>28 Jan 1999</u>	<u>K. Kuniyoshi</u>
5) <u>M. Sagara</u>	<u>27 Jan. 1999</u>	<u>K. Kuniyoshi</u>