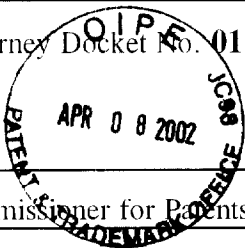


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Conveyance type:

- Assignment
- License
- Merger
- Security Agreement
- Change of name
- Other

Conveying Party(ies):

(Last, First, Middle Initial)

Execution Date

First party Name: OMORI, Mamoru January 7, 2002

Second party Name: HIRAI, Toshio January 7, 2002

Third party Name: TOKITA, Masao January 30, 2002

Additional name(s) of conveying party(ies) attached? Yes ___ No XX

Receiving Party (ies):

First party Name: **MAMORU OMORI**
Address: 1-42, Takamori 1-Chome, Izumi-Ku, Sendai City, Miyagi
981-3203 Japan

Second party Name: **SUMITOMO COAL MINING CO., LTD.**
Address: 20-4, Nishi-Shinbashi 3-Chome, Minato-Ku, Tokyo 105-8425 Japan

Additional name(s) & address(es) attached? Yes ___ No XX

Domestic Representative Name and Address



23850

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1725 K Street, N.W., Suite 1000
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Application Number(s) or Patent Number(s) Additional numbers attached? Yes No

A. Patent Application No.(s)
09/980.738

B. Patent No.(s)

If this document is being filed together with a new application, enter the date the application was signed by the first named executing inventor: _____
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PCT _____
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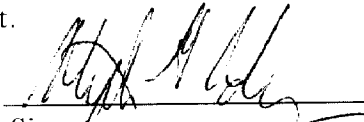
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Statement and signature

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.

Stephen G. Adrian
Name of Person Signing


Signature

April 8, 2002
Date

32,878
Registration No.

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

(Insert ASSIGNEE's Name(s) Address(es))

Mamoru Omori 1-42, Takamori 1-Chome, Izumi-Ku, Sendai City, Miyagi 981-3203 Japan
SUMITOMO COAL MINING CO., LTD. 20-4, Nishi-Shinbashi 3-Chome, Minato-Ku, Tokyo 105-8425 Japan

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of Invention)

METHOD FOR PRODUCING EUTECTIC CERAMICS

(*If the assignment is being filed after the filing of the application, this section must be completed)

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

*filed on December 7, 2001, Serial No. 09/980,738. (Armstrong, Westerman, Hattori, McLeland & Naughton, LLP is hereby authorized to insert the series code, serial number and/or filing date hereon, when known) and all Letters Patent of the United States to be obtained therefor on said application or any continuation, divisional, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any continuation, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

Mamoru Omori Mamoru OMORI January 7, 2002
Toshio Hirai Toshio HIRAI January 7, 2002
Masao Tokita Masao TOKITA January 30, 2002

NO LEGALIZATION REQUIRED