

10/498987

A 10581-40

Attorney Docket No. 040245

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06/25/04

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DT04 Rec'd PCT/PTO 25 JUN 2004

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Submission type: New
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Document ID #: _____
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Conveyance type: Assignment Security Agreement
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Conveying Party (ies): (Last, First, Middle Initial) Execution Date

First party	Name:	ONOSATO, Yoichi	April 28, 2004
Second party	Name:	ICHIKAWA, Susumu	April 28, 2004
Third party	Name:	WATANABE, Akio	April 28, 2004

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

Receiving Party (ies):

First party Name: SUMITOMO METAL MINING CO., LTD.
Address: 5-11-3, Shinbashi Minato-ku, Tokyo 105-8716 Japan

Second party Name:
Address:

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

Domestic Representative Name and Address

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Application Number(s) or Patent Number(s) Additional numbers attached? Yes ___ No XX

A. Patent Application No.(s) 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: April 28, 2004

(Do not recite both application and patent numbers.)

Patent Cooperation Treaty (PCT) PCT PCT/JP03/01766
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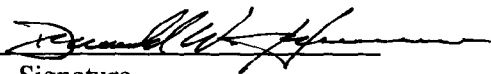
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Statement and signature

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.

Donald W. Hanson
Name of Person Signing


Signature

June 25, 2004
Date

27,133
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))

SUMITOMO METAL MINING Co., Ltd.

5-11-3, Shinbashi Minato-ku, Tokyo 105-8716 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)

OPTICAL-FIBER FEEDTHROUGH

(*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 _____, Serial No. _____.

(Armstrong, Kratz, Quintos, Hanson & Brooks, LLP is hereby authorized to insert the serial 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)

<u>Yoichi Onosato</u> (Signature)	<u>Yoichi ONOSATO</u> (Type Name)	<u>April 28, 2004</u> (Date)
<u>Susumu Ichikawa</u> (Signature)	<u>Susumu ICHIKAWA</u> (Type Name)	<u>April 28, 2004</u> (Date)
<u>Akio Watanabe</u> (Signature)	<u>Akio WATANABE</u> (Type Name)	<u>April 28, 2004</u> (Date)
_____ (Signature)	_____ (Type Name)	_____ (Date)
_____ (Signature)	_____ (Type Name)	_____ (Date)
_____ (Signature)	_____ (Type Name)	_____ (Date)

NO LEGALIZATION REQUIRED