

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is acknowledged, the undersigned,

Muneaki MUKUDA, Takayuki INUZUKA, Naosi YAMADA, Hideki ASAO and
Kazuhisa HENMI
of c/o Mitsubishi Denki Kabushiki Kaisha
2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN
sells, assigns, and transfers to

Mitsubishi Denki Kabushiki Kaisha
of 2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN

(the Assignee), its successors and assigns, the entire right, title, and interest in and to:

- (i) the application for United States Letters Patent entitled:
WAVEGUIDE AND MANUFACTURING METHOD THEREOF

which was executed by the undersigned on Jan. 7
2003 or was filed on _____ and accorded Serial
No. _____ (the Application);

- (ii) any and all inventions and improvements that are described in the Application;
- (iii) any and all United States Letters Patents that may be granted on the Application (the Patent);
- (iv) any and all divisions, continuations, reexaminations, reissues, or extensions of the Application or the Patent; and
- (v) all benefits under the International Convention for the Protection of Industrial Property.

I authorize the Assignee and its agents to insert in this instrument the filing date and serial number of the Application.

I authorize and request the Commissioner of Patents to issue any and all Letters Patent, when granted, to the Assignee.

Further, it is agreed that, when requested, without charge to, but at the expense of, the Assignee, the undersigned will execute all divisional, continuing, or reissue patent applications; execute all additional assignments and other writings, including reissue and reexamination papers; and provide all reasonable assistance requested by the Assignee to secure and maintain appropriate patent protection for any invention described in the Application.

INVENTOR

Date

Muneaki Mukuda
Muneaki MUKUDA

Jan. 7, 2003

Takayuki Inuzuka
Takayuki INUZUKA

Jan. 7, 2003

Naosi Yamada
Naoshi Yamada
Naosi YAMADA N.Y. January 7, 2003

Jan. 7, 2003

Hideki Asao
Hideki ASAO

Jan. 7, 2003

Kazuhisa Henmi
Kazuhisa HENMI

Jan. 7, 2003
