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- 8. Minoru HASHIMOTO
- 9. Fusaoki UCHIKAWA
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Execution Date(s)

- August 4, 2002
- August 4, 2002
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Receiving Party(ies)

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Application Number(s) or Patent Number(s)

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Patent Application Numbers

Patent Numbers

09/640,000

If this document is being filed together with a *new* Patent Application, enter the date the patent application was signed by the first named executing inventor.

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Patent Cooperation Treaty (PCT)

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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, Masakazu TAKABAYASHI, Kiichi YOSHIARA, Sadayuki MATSUMOTO, Junichiro HOSHIZAKI, Takeyuki MAEGAWA, Hajime TAKEYA, Kiyohide SAKAI, Minoru HASHIMOTO and Fusaoki UCHIKAWA

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 GRATING DEVICE AND METHOD OF CONTROLLING BRAGG WAVELENGTH OF WAVEGUIDE GRATING

which was executed by the undersigned on August 3, 2000 and August 4, 2000 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.

Signed at Tokyo, Japan

this 3rd & 4th day of August, 2000.

WITNESS(ES):

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