

02-21-2002



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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office
Docket No.: 6920/OK272

101988537

To the Honorable Commissioner of Patents and Trademarks: Please receive the attached original documents or copy thereof.

1. Name of conveying party(ies): 2/8/02
Katsuhiko HIRABAYASHI; Chikara AMANO

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

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: February 1, 2002

2. Name and address of receiving party(ies):
 Name: **Nippon Telegraph and Telephone Corporation**
 Internal Address:
 Street Address: **3-1, Otemachi 2-chome, Chiyoda-ku**
 City: **Tokyo** State: **Japan** Zip:
 Additional name(s) & address(es) attached? Yes No

J6621 U.S. PRO
 10/072091
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4. Application number(s) or patent number(s):
 If this document is being filed together with a new application, the execution date of the application is: February 1, 2002

A. Patent Application No.(s)

EXPRESS MAIL CERTIFICATE
 Date: 2/8/02 Label No. 2767723509US
 I hereby certify that, on the date indicated above, this paper or fee was deposited with the U.S. Postal Service & the Assistant Commissioner of Patents, Washington, DC 20231 by "Express Mail" to Addressee's service.

B. Patent No.(s)

D Beck Name (Print) [Signature] Signature

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: Darby & Darby P.C.
 Internal Address: S. Peter Ludwig
 Street Address: 805 Third Avenue, 27th Floor
 City: New York State: New York Zip: 10022-7513

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):.....\$ 40.00
 Enclosed
 Authorized to be charged to deposit account

8. Deposit account number:
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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.

Marc S. Gross (19,614) Name of Person Signing
[Signature] Signature
February 7, 2002 Date

Total number of pages including cover sheet, attachments, and document: 3

ASSIGNMENT

I/We, the inventor(s) named below [hereinafter referred to as the Assignor(s)], have made an invention entitled:
 WAVEGUIDE-TYPE OPTICAL DEVICE AND MANUFACTURING METHOD THEREFOR
 for which application for Letters Patent of the United States was executed on even date herewith unless otherwise
 indicated below:

filed on _____, Serial No. _____, and

(Full Name, Address, and Nationality of Assignee(s))

NIPPON TELEGRAPH AND TELEPHONE CORPORATION
 3-1, Otemachi 2-chome, Chiyoda-ku, Tokyo, Japan

[hereinafter referred to as the Assignee(s)], is/are desirous of securing the entire right, title, and interest in and to this invention, the application for United States Patent for this invention, and the Letters Patent to be issued upon this application;

Now, therefore, be it known that, for good and valuable consideration, the receipt of which from the Assignee(s) is hereby acknowledged, I/we, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee(s), its/their lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof ; and I/we hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention in the name of the Assignee(s), its/their successors and assigns, in accordance with the terms of this assignment;

And I/we hereby further covenant and agree that I/we will, without further consideration, communicate with the Assignee(s), its/their successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful documents when called upon to do so, execute and deliver all documents that may be necessary or desirable to perfect the title to this invention in the name of the Assignee(s), its/their successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid the Assignee(s) and its/their successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such documents shall be borne by the Assignee(s), its/their successors and assigns.

Full name of (check one) <input type="checkbox"/> Sole or <input checked="" type="checkbox"/> First Assignor	
Signature <u><i>Katsuhiko Hirabayashi</i></u>	Date <u>February 1, 2002</u>
Type <u>Katsuhiko Hirabayashi</u>	Citizenship <u>Japan</u>

Full name of Second Assignor, if any

Signature *Chikara Amano*

Date February 1, 2002

Type Chikara Amano

Citizenship Japan

Full name of Third Assignor, if any

Signature _____

Date _____

Type _____

Citizenship _____

Full name of Fourth Assignor, if any

Signature _____

Date _____

Type _____

Citizenship _____

Full name of Fifth Assignor, if any

Signature _____

Date _____

Type _____

Citizenship _____

Full name of Sixth Assignor, if any

Signature _____

Date _____

Type _____

Citizenship _____