

11-29-2000

FORM PTO-1594
1-31-92

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U.S. Department of Commerce
Patent and Trademark Office
Attorney Docket No. 05721.0023

To the Honorable Commissioner of Patents and
Please record the attached original documents or copy thereof.

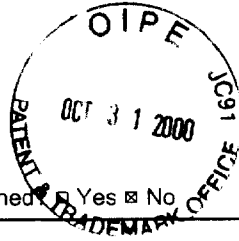
101531464

INTERNATIONAL BOX ASSIGNMENTS

1. Name of conveying parties:
1) Myeongkyu LEE
2) Kenji KITAMURA
3) Yasunori FURUKAWA
4) Shunji TAKEKAWA
5) Hideki HATANO

2. Name and address of receiving party:

1) Director General of National Institute for Research
in Inorganic Materials, Science and Technology
Agent, Japan



Names: 2) PIONEER CORPORATION

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

Internal Address:

3. Nature of conveyance:

Street Addresses: 1) Namiki 1-1, Tsukuba-shi, Ibaraki,
305-0044, Japan
2) 4-1, Meguro 1-chome
Meguro-ku, Tokyo, Japan

Assignment Merger
 Security Agreement Change of Name

City:

State:

Zip Code:

Handwritten: UNO 10/31/00

Other

Additional name(s) & Address(es) attached?

Execution Date: October 3, 2000

Yes No

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: _____

A. Patent Application Number(s):
09/631,646

B. Patent Number(s):

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

6. Total number of applications and registrations involved:
1

Name: Mr. Ernest F. Chapman

7. Total fee (37 CFR 3.41): \$40

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT
& DUNNER, L.L.P.

Enclosed (Please charge deficiency to deposit account)

Authorized to be charged to deposit account

Street Address: 1300 I Street, N.W.

City: Washington

State: DC Zip: 20005-3315

8. Deposit account number: 06-0916

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.

David W. Hill

Handwritten signature: David W. Hill

October 31, 2000

11/28/2000 GTON11 00000364 09631646

FC:581

40.00 JP

Signature

Date

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

PATENT

REEL: 011272 FRAME: 0945

ASSIGNMENT

In consideration of the sum of ten dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, the undersigned agree to assign, and hereby do assign, transfer, and set over to:

Director General of National Institute for Research in Inorganic Materials, Science and Technology Agent, Japan of Namiki 1-1, Tsukuba-shi, Ibaraki, 305-0044, Japan

and

Pioneer Corporation of 4-1, Meguro 1-chome, Meguro-ku, Tokyo, Japan

(hereinafter designated as the "ASSIGNEE") the entire right, title, and interest for the United States and all foreign countries (including protection in foreign countries via the Patent Cooperation Treaty), in the invention, and all applications for patent and any Letters Patent which may be granted therefor, the application being known by the Title:

HOLOGRAM RECORDING APPARATUS AND METHOD THEREFOR

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

filed on August 2, 2000,
serial No. 09/631,646

1. The undersigned agree to execute all papers necessary in connection with the application and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

2. The undersigned agree to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the ASSIGNEE in every way possible in obtaining evidence and going forward with such interference.

3. The undersigned agree to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial property or similar agreements.

4. The undersigned agree to perform all affirmative acts which may be necessary to obtain a grant of a valid United states patent to the ASSIGNEE.

5. The undersigned hereby authorize and request the commissioner of Patents in the United States and the appropriate national or regional authority in each foreign country to issue any and all Letters Patents resulting from said application or any division or divisions or continuing applications thereof to the said ASSIGNEE, as ASSIGNEE of the entire interest, and hereby covenants that they have full right to convey the entire interest herein assigned, and that they have not executed and will not execute, any agreement in conflict herewith.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned names.


The undersigned hereby authorize the firm of

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP.
at the address of 1300 I Street, N.W., Washington,
D.C. 20005-3315, U.S.A.

to insert hereon any further identification necessary or desirable for recordation of this document.

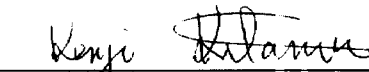
October 3, 2000

Date


Typed Name: Myeongkyu LEE

October 3, 2000

Date


Typed Name: Kenji KITAMURA

Oct 3, 2000

Date


Typed Name: Yasunori FURUKAWA

October 3, 2000

Date


Typed Name: Shunji TAKEKAWA

Oct 3, 2000

Date


Typed Name: Hideki HATANO