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

1. Name of conveying party(ies):
   - Donald L. Mead
   - Mark V. Pierson

Additional names(s) of conveying party(ies) □ Yes  X No

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

Execution Date: 6/16/99

4. Application number(s) or registration number(s):
   If this document is being filed together with a new application, the execution date of the application is: 6/16/99

Patent Application No. Filing date
   EN997160

5. Name and address of party to whom correspondence concerning document should be mailed:
   Name: Lawrence R. Fraley
   Registration No. 26,885
   Address: IBM Corporation
   IP Law Dept. N50/040-4
   1701 North Street
   City: Endicott  State/Prov.: NY
   Country: USA  ZIP: 13760

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): $ 40.00
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8. Deposit account number: 09-0457

   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.

   Lawrence R. Fraley, Reg. No. 26,885
   Name of Person Signing

   Signature  June 25, 1999  Date

Total number of pages including cover sheet, attachments, and
ASSIGNMENT

Whereas, we

Inventor and City
(1) Donald I. Mead
   County of Susquehanna
   City of Montrose
and State of PA

and
(2) Mark V. Pierson
   County of Broome
   City of Binghamton
and State of NY

and
(3)
   County of
   City of
   and State of

and
(4)
   County of
   City of
   and State of

and
(5)
   County of
   City of
   and State of

and
(6)
   County of
   City of
   and State of

and
(7)
   County of
   City of
   and State of

and
(8)
   County of
   City of
   and State of

have invented certain improvements in

Title
METHOD OF MAKING ELECTRICALLY CONDUCTIVE CONTACTS ON SUBSTRATES

and have executed, respectively, a United States patent application therefor on

Dates That Inventors Signed the Declaration
(1) 6/16/99 and, (2) 6/16/99 and,
(3) and, (4) 6/16/99 and,
(5) and, (6) 6/16/99 and,
(7) and, (8) 6/16/99 and,

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we the above named hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

(Signatures of inventors on Page 2)
ASSIGNMENT (Continued)

METHOD OF MAKING ELECTRICALLY CONDUCTIVE CONTACTS ON SUBSTRATES

City
Date
(1) Signed at Endicott, NY on 11/16/97
Donal L. Mead
(Signature of Inventor)

(2) Signed at Endicott, NY on 11/16/97
Mark V. Pierson
(Signature of Inventor)

(3) Signed at
on

(4) Signed at
on

(5) Signed at
on

(6) Signed at
on

(7) Signed at
on

(8) Signed at
on

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REEL: 010071 FRAME: 0373

RECORDED: 06/24/1999