

21909 U.S. PTO
10/616012
07/08/03

07-18-2003

To the Assistant original documents



Please record the attached

1. Name of conveying party(ies):

102617737
7-8-03

2. Name and address of receiving party(ies):

- 1. Daniel Mark Dreps
- 2. Frank David Ferraiolo

International Business Machines Corporation
New Orchard Road
Armonk, New York 10504

3. Nature of conveyance: Execution X Assignment Date: 5/31/2001 5/30/2001

4. Application number(s) or patent number(s):

10616012

If this document is being filed together with a new application, the execution date of the application is

A. Patent Application No.(s)

B. Patent No.(s)

5. Name and address of party to whom correspondence concerning document should be mailed: 6. Total number of applications and patents involved: 1

IBM
Intellectual Property Law
Internal Zip 4054
11400 Burnet Road
Austin, TX 78758
(512) 823-

7. Total fee (37 CFR 3.41) \$ 40.00
X 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.

Andrew M. Harris
Name of Person Signing

Andrew M. Harris
Signature

July 8, 2003
Date

Total number of pages including cover sheet:

07/18/2003 6T0M11 0000014 090447 10616012
01 FC:0021 40.00 00

ASSIGNMENT

Whereas, I,

(1) Daniel Mark Dreps, of Georgetown
County of Travis and State of Texas

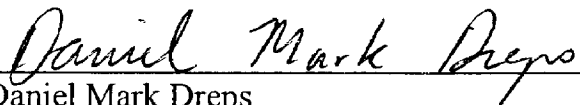
(2) Frank David Ferraiolo, of Essex Junction
County of Chittenden and State of Vermont

have invented certain improvement in METHOD AND APPARATUS FOR INTERFACE SIGNALING USING SINGLE-ENDED AND DIFFERENTIAL DATA SIGNALS and executed a United States patent application therefore on (1) 5/31, 2001 and (2) _____, 2001.

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 therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, 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 I hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

(1) Signed at Austin on 5/31, 2001.



Daniel Mark Dreps

(2) Signed at Essex Junction on _____, 2001.

Frank David Ferraiolo

OATH & ASSIGNMENT

1. The undersigned,

Daniel Mark Dreps
Citizen of the United States
300 Belmont Drive
Georgetown, TX 78626

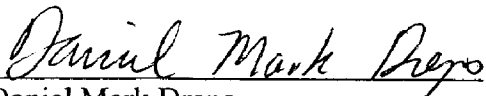
Frank David Ferraiolo
Citizen of the United States
16 Bluestem Road
Essex Junction, Vermont 05452

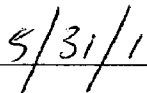
hereby undertake that the invention/new utility entitled **METHOD AND APPARATUS FOR INTERFACE SIGNALING USING SINGLE-ENDED AND DIFFERENTIAL DATA SIGNALS** was truly Invented by me/us. The undersigned acknowledge that willful false statements are punishable by laws.

2. The undersigned hereby assign all my rights and interests regarding the invention/new utility model/new design as far as the Republic of China is concerned to **INTERNATIONAL BUSINESS MACHINES CORPORATION** (hereinafter called "Assignee"), a corporation organized and existing under the laws of the State of New York, USA and located at New Orchard Road, Armonk, New York 10504, USA and do hereby declare that the Assignee is entitled to applying for and obtaining patent rights on the invention/new utility model/new design in its own name in the Republic of China.

Signature

Date


Daniel Mark Dreps



Frank David Ferraiolo

IBM DOCKET NO. AUS920010256US1

ASSIGNMENT

Whereas, I,

(1) Daniel Mark Dreps, of Georgetown
County of Travis and State of Texas

(2) Frank David Ferraiolo, of Essex Junction
County of Chittenden and State of Vermont

have invented certain improvement in METHOD AND APPARATUS FOR INTERFACE
SIGNALING USING SINGLE-ENDED AND DIFFERENTIAL DATA SIGNALS and
executed a United States patent application therefore on (1) _____, 2001 and
(2) 5/30, 2001.

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation
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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 therefore;

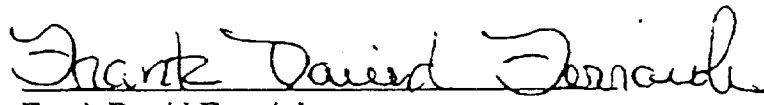
Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I,
the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire
right, title and interest in the said application and invention therein disclosed for the United
States and foreign 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 I
hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute
all papers necessary in connection with the United States and foreign applications when called
upon to do so by IBM.

(1) Signed at Austin on _____, 2001.

Daniel Mark Dreps

IBM DOCKET NO. AUS920010256US1

(2) Signed at Essex Junction on 5/30, 2001.


Frank David Ferraiolo

Docket Number AUS920010256US1

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1. The undersigned,

Daniel Mark Dreps
Citizen of the United States
300 Belmont Drive
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Frank David Ferraiolo
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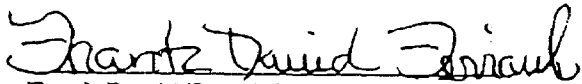
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Signature

Date

Daniel Mark Dreps


Frank David Ferraiolo

5/30/2001