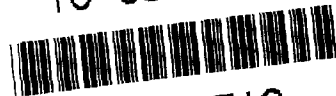


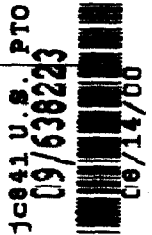
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To the Assistant Commissioner c documents or copy thereof.



1. Name of conveying party(ies):

Brian John Cragun
Paul Reuben Day

8-14-00

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

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

3. Nature of conveyance:

X Assignment

Execution Date: August 10, 2000 and August 10, 2000, respectively

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 August 10, 2000, August 10, 2000, respectively

A. Patent Application No.(s)

B. Patent No.(s)

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

Matthew J. Bussan
IBM Corporation
Intellectual Property Law
3605 Highway 52 North
Department 917, Bldg. 006-1
Rochester, MN 55901-7829
(507) 253-2557

6. Total number of applications and patents involved: 1

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

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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.

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For: FELSMAN, BRADLEY, VADEN,
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8/14/00
Date

Total number of pages including cover sheet: 2

A S S I G N M E N T

Whereas, we,

(1) Brian John Cragun of Rochester,
County of Olmsted and State of Minnesota,

(2) Paul Reuben Day of Rochester,
County of Olmsted and State of Minnesota,

have invented certain improvements in

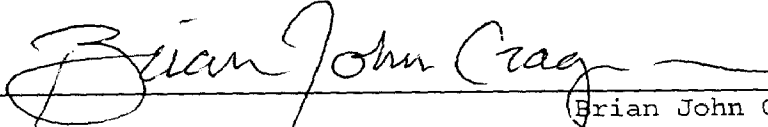
METHOD AND SYSTEM FOR PROCESSING ELECTRONIC SEARCH EXPRESSIONS

and executed, respectively, a United States patent application therefor on
(Date Inventors Signed Declaration) (1) August 10, 2000, and (2) August 10, 2000.

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;

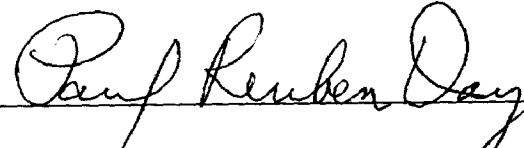
Now therefore, for a valuable consideration, receipt whereof is hereby
acknowledged, we, the above named, hereby sell, assign, and transfer to IBM,
its successors and assigns, the entire right, title and interest in the said
application and invention therein disclosed for the United States and foreign
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.

(1) Signed at Rochester, MN on 8-10, 2000.



Brian John Cragun

(2) Signed at Rochester, MN on 8-10, 2000.



Paul Reuben Day