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**Sabine V. Deligne and  
Satyanarayana Dharanipragada**

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☐ Yes ☒ No

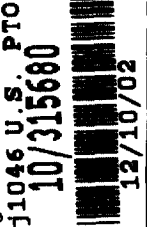
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2. Name and address of receiving party(ies)

Name: **International Business Machines Corporation**

Internal Address:

Street Address: **New Orchard Road**City: **Armonk** State: **NY** ZIP: **10504**Additional name(s) & address(es) attached? ☐ Yes ☒ No4. Application number(s) or patent number(s): **10/315680**

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

**December 9, 2002**

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: **William E. Lewis**Internal Address: **Ryan, Mason & Lewis, LLP**Street Address: **90 Forest Avenue**City: **Locust Valley** State: **NY** ZIP: **11560**6. Total number of applications and patents involved: 17. Total Fee (37 CFR 3.41)..... \$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account8. Deposit account number **50-0510**

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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.*William E. Lewis

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PATENT  
REEL: 013577 FRAME: 0049

**ASSIGNMENT**

Whereas, we

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and City(1) **Sabine V. Deligne**  
County of New Yorkof New York  
and State of New Yorkand (2) **Satyanarayana Dharanipragada**  
County of Westchesterof Ossining  
and State of New York

have invented certain improvements in

TITLE **METHODS AND APPARATUS FOR SIGNAL SOURCE SEPARATION**

and executed a United States patent application therefor on

DATE THAT (1) \_\_\_\_\_ 2002 and (2) \_\_\_\_\_ 2002.  
INVENTORS  
SIGNED THE  
DECLARATION

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at New Orchard Road, 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 inventions 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.

CITY and DATE Signed (1) at Yorktown, NY  
on Dec. 9 2002, \_\_\_\_\_ SIGNATURE  
(**Sabine V. Deligne**) INVENTOR  
FIRST NAME MIDDLE INITIAL LAST NAME

CITY and DATE Signed (2) at Yorktown, NY  
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