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To the Assistant Commissioner of Patents: Please record the attached original document or copy thereof.

1. Submission Type: New 2. Conveyance Type: Assignment

3. Conveying Parties: (1) Hal Hjalmar Ottesen (2) Gordon James Smith 4. Execution Date: June 14, 2000 June 20, 2000

5. Receiving Party: International Business Machines Corporation New Orchard Road Armonk, New York 10504

6. Application Number/Patent Number: 09598234

Patent Application Number: Patent Number: New Application: execution date of application by first-named inventor: June 14, 2000

7. Correspondent Name and Address: Jack V. Musgrove, Esq. Felsman, Bradley, Vaden, Gunter & Dillon, LLP Suite 350, Lakewood on the Park 7600B North Capital of Texas Hwy. Austin, Texas 78731 Tel.: (512) 343-6116 8. Number of Properties: One (1) Fee Amount (37 CFR 3.41) \$40.00 Authorized to be charged to IBM Corporation Deposit Account No. 09-0465

Vertical stamp: Jc832 U.S. PTO 09/598234 06/21/00

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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. Charges to deposit account are authorized, as indicated herein.

Mary Ann Healey Name of Person Signing

For: FELSMAN, BRADLEY, VADEN, GUNTER & DILLON, LLP

Mary Ann Healey 21 June 2000 Date

A S S I G N M E N T

Whereas, we,


(1) Hal Hjalmar Ottesen
County of Olmstedof Rochester,
and State of Minnesota,

and

(2) Gordon James Smith
County of Olmstedof Rochester,
and State of Minnesota,

have invented certain improvements in

GENERATION OF HIGHER-ORDER HARMONIC SINE AND COSINE
SEQUENCES BY INDEXING A FIRST-ORDER SINE/COSINE TABLEand executed, respectively, a United States patent application therefor on
(Dates Inventors Signed Declaration) (1) June 14, 2000, and
(2) June 20, 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 6-14, 2000;

Hal Hjalmar Ottesenand (2) Signed at Rochester, MN on 6-20, 2000;

Gordon James Smith