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PATENT

REEL: 021231 FRAME: 0121

IBM Docket: YOR920070532US1

ASSIGNMENT

Inventor and City Whereas, we

(1) Ulrich Finkler

County of Putnam

of Mahopac

and State of New York

(2) Alexey Lvov County of Rockland

of Congers

and State of New York

have invented certain improvements in

TITLE

EXACT GEOMETRY OPERATIONS ON SHAPES USING FIXED-SIZE INTEGER COORDINATES

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

DATE THAT INVENTOR SIGNED THE DECLARATION (1) Narch 4th , 2008, (2) March 11th 2008.

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 in rention, 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, litle and interest in the said application and invention therein disclosed for the United States and foreign countries, and in all 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.

Signed

(Official Finkler) INVENTOR

FIRST NAME MIDDLE INITIAL ∕LAST NAME

(Alexey Lvov) INVENTOR

FIRST NAME MIDDLE INITIAL LAST NAME

ALEXEY

LVOV

on //an/ 11th, 2008

REEL: 021231 FRAME: 0122

PATENT

RECORDED: 07/12/2008