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PIONEER CORPORATION  
4-1, Meguro 1-chome,  
Meguro-ku,  
Tokyo,  
Japan

7.14.03

3. Nature of conveyance:  
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Execution Date: April 25, 2003 and May 6, 2003

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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:  
A. Patent Application No.(s)  
10/391,528

B. Patent No.(s)  
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5. Name and address of party to whom correspondence concerning document should be mailed:  
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1

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PATENT  
REEL: 014276 FRAME: 0595

ASSIGNMENT

In consideration of the sum of ten dollars (\$10.00) and other good and valuable consideration paid to each of the undersigned, the undersigned agree to assign, and hereby do assign, transfer, and set over to:

Pioneer Corporation

having the address:

4-1, Meguro 1-chome, Meguro-ku, Tokyo, Japan

(hereinafter designated as the "ASSIGNEE") the entire right, title, and interest for the United States and all foreign countries (including protection in foreign countries via the Patent Cooperation Treaty), in the invention, and all applications for patent and any Letters Patent which may be granted therefor, the application being known by the Title:

ROUTE GUIDANCE APPARATUS AND METHOD

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

filed on March 19, 2003,

serial No. 10/391,528

1. The undersigned agree to execute all papers necessary in connection with the application and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

2. The undersigned agree to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the ASSIGNEE in every way possible in obtaining evidence and going forward with such interference.

3. The undersigned agree to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial property or similar agreements.

4. The undersigned agree to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the ASSIGNEE.

