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12-10-2001



DEPARTMENT OF COMMERCE
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P, 1	01910526 Attorney Docket No. 11-070			
To the honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.				
1. Name of conveying party(ies): (1) Yasuhiro SHIMIZU (2) Kiyoshi TSURUMI	Name and address of receiving party(ies) Name: DENSO CORPORATION Internal Address:			
Additional name(s) of conveying party(ies) attached? Yes X No 3. Nature of conveyance: X Assignment Merger Security Agreement Change of Name Other Execution Dates: (1),(2) November 2, 2001	Street Address: 1-1, Showa-cho Kariya-city, Aichi-pref. 448-0029 JAPAN City: State: Zip: Additional name(s) & address(es) attached? Yes X No			
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the A. Patent Application No.(s) 09/985,765 Additional numbers at	B. Patent No.(s)			
Name and address of party to whom correspondence concerning document should be mailed: Name: David G. Posz Internal Address:	6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41)\$ X Enclosed			
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For good and valuable consideration, the receipt of which is hereby expressly acknowledged, the undersigned hereby agree(s) to assign, and hereby sell(s), assign(s) and transfer(s) to

DENSO CORPORATION		
of 1-1, Showa-cho, Kariya-city,	Aichi-pref. 448-0029 Japan	
as Assignee, and its successors, assi the United States of America and all fo VEHICLE NAVIGATION APPARATUS F	preign countries, to certain invei	ntions known as
RECKONING ESTIMATES OF VEHICLE		
AND DIRECTION INFORMATION DERI		
described in an application for Letters		
described in air application for Ectters	r aten of the office ofaces exe	cuted
(A) _ x _ on even date herewith		
(B) x on November 2, 2001		
(C) as U.S. Application Serial N	No. filed on	
	1104 011	
as well as any and all continuations Letters Patent, and all Letters Pate authorize(s) and request(s) the United Letters Patent to said Assignee.	ent that may be granted the	erefor. The undersigned hereby
The undersigned agree(s), when requacts which may be necessary for secutitle thereto in said Assignee.		
The undersigned authorize(s) and emonor of priority provided by the Internation convention which may be henceforthe application for said Letters Patent.	al Convention for the Protectio	n of Industrial Property, or by any
The undersigned also authorize(s) Law that may be necessary or desirable for		ert hereon any further identification
yasuhira Shinizu	November 2,2009	Zidehiko Kawakami
Inventor 1: Yasuhiro Shimizu	Date	Witness
Kiyoshi Zsurumi Inventor 2: Kiyoshi Tsurumi	November 2,2001	Holehiko Kawakami Witness Holehiko Kawakami
Inventor 2: Kiyoshi Tsurumi	Date	Witness
Inventor 3:	Date	Witness
Inventor 4:	Date	Witness
Inventor 5:	Date	Witness

Continued on page 2 for additional inventors

RECORDED: 12/05/2001

PATENT REEL: 012342 FRAME: 0183