FORM PTO-1619A

05-07-2001



U.S. Department of Commerce

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Conveying Party(ies)	Mark if additional nan	nes of conveying	Execution Date	
Name (line 1) Ryo Kobayashi			Month Day Year 04 25 2001	
Name (line 2)				
Second Party			Execution Date	
Name (line 1) Yasushi Yamanaka			Month Day Year 04 25 2001	
Name (line 2) Receiving Party			receiving parties attached	
Receiving Party Name (line 1) DENSO CORPORA			receiving parties attached If document to be recorded is an assignment and the receiving party is not	
Receiving Party			receiving parties attached If document to be recorded is an assignment and the receiving party is not domiciled in the United Stan appointment of a dome	ates,
Receiving Party Name (line 1) DENSO CORPORA			receiving parties attached If document to be recorded is an assignment and the receiving party is not domiciled in the United State an appointment of a dome representative is attached (Designation must be a	ates,
Receiving Party Name (line 1) DENSO CORPORA Name (line 2) Address (line 1) 1-1, Showa-cho			receiving parties attached If document to be recorded is an assignment and the receiving party is not domiciled in the United Stan appointment of a dome representative is attached	ates,
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Receiving Party Name (line 1) DENSO CORPORA Name (line 2) Address (line 1) 1-1, Showa-cho	TION Aichi-pref., Japan		If document to be recorded is an assignment and the receiving party is not domiciled in the United Stan appointment of a dome representative is attached (Designation must be a separate document from Assignment.)	ates,
Receiving Party Name (line 1) DENSO CORPORA Name (line 2) Address (line 1) 1-1, Showa-cho Address (line 2) Address (line 3) Kariya-city	Aichi-pref., Japan State/Country		receiving parties attached If document to be recorded is an assignment and the receiving party is not domiciled in the United Stan appointment of a dome representative is attached (Designation must be a separate document from Assignment.) 448-8661 Zip Code	ates,
Receiving Party Name (line 1) DENSO CORPORA Name (line 2) Address (line 1) 1-1, Showa-cho Address (line 2) Address (line 3) Kariya-city City Domestic Representative Name a	Aichi-pref., Japan State/Country and Address Enter for	the first Receivin	receiving parties attached If document to be recorded is an assignment and the receiving party is not domiciled in the United Stan appointment of a dome representative is attached (Designation must be a separate document from Assignment.) 448-8661 Zip Code	ates,
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0651-0027, Patent and Trademark Assignm

ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to:

Commissioner of Patents and Trademarks, Box Assignments , Washington, D.C. 20231

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PATENT

FORM PTO-161 Expires 06/30/99 OMB 0651-0027	9B	Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT
Correspondent	Name and Address	Area Code and Telephone Number	248-641-1600
Name	H. Keith Miller, Esq.		
Address (line 1)	Harness, Dickey & F	Pierce, P.L.C.	
Address (line 2)	P.O. Box 828		
Address (line 3)	Bloomfield Hills, MI	48303	
Address (line 4)			
Pages	Enter the total number including any attachr	er of pages of the attached conveyance nents	document # 2
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<u>only if</u> a Number	U.S. Application as not been assigned.	PCT PCT	PCT
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H. Keith Miller, Es	q.	Signature	Date
Name of Per	son Signing		

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RECORDATION FORM COVER SHEET CONTINUATION PATENTS ONLY

U.S. Department of Commerce Patent and Trademark Office PATENT

Conveying Party(ies) Mark if additional names of conveying	
nter additional Conveying Parties	Execution Date Month Day Year
Name (line 1) Yoshitaka Tomatsu	04 25 2001
Name (line 2)	
	Execution Date
Name (line 1) Satoshi Itoh	Month Day Year 04 25 2001
	04 25 2001
Name (line 2)	Execution Date
	Month Day Year
Name (line 1) Motohiro Yamaguchi	04 25 2001
Name (line 2)	
Receiving Party(ies) Mark if additional names of	of receiving parties attached
nter additional Receiving Party(ies)	.
Name (line 1)	If document to be recorded
L	is an assignment and the
Name (line 2)	receiving party is not domiciled in the United
	States, an appointment
Address (line 1)	of a domestic representative is attached.
Address (line 1)	(Designation must be
Address (line 2)	a separate document from Assignment.)
Address (line 3)	
City State/Country	Zip Code
Name (line 1)	If document to be recorded is an assignment and the receiving
	party is not
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RECORDATION FORM COVER SHEET

U.S. Department of Commerce

Expires 06/30/99 OMB 0651-0027	CONTINUATION PATENTS ONLY	PATENT	
Conveying Party(ies)	☐ Mark if additional names of conveying parties attached		
Enter additional Conveying Parties		Execution Date Month Day Year	
Name (line 1) Satoshi Izawa		04 25 2001	
Name (line 2)		Execution Date	
		Month Day Year	
Name (line 1) Yoshiaki Takano	4 400 14 100 100 100 100 100 100 100 100	04 26 2001	
Name (line 2)		Execution Date	
		Month Day Year	
Name (line 1) Toshitaka Shimizu	1	04 25 2001	
Name (line 2)			
Receiving Party(ies)	☐ Mark if additional nam	es of receiving parties attached	
Enter additional Receiving Party(ies)			
Name (line 1)		If document to be recorded is an assignment and the	
Name (line 2)		receiving party is not domiciled in the United	
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Address (line 2)		Assignment.)	
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Address (line 3)	State/Country	Zip Code	
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Name (line 1)		is an assignment and the receiving	
W 0)		party is not domiciled in the United	
Name (line 2)		States, an appointment of a domestic	
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Address (line 1)		a separate document from	
Address (line 2)		Assignment.)	
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Application Number (s)	wher or the Patent Number (DU NO) ENTER DOTTER	numbers for the same property).	
Patent Application Numb	er(s)	Patent Number(s)	
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ASSIGNMENT BY INVENTORS

Sole or Joint

WHEREAS, the undersigned, hereinafter referred to as Assignor(s), have invented

		TIONING APPARATUS F		
		application for Letters Pat	ent of the United Sta	ites of America:
` ,	even date her			
(B)	on	. No	filed	
(C)	in U.S. Appin	. No	Tiled	
AND WHERE	AS,			
DENSO CORPORATION	ON of 1-1, S	howa-cho, Kariya-city,	Aichi-pref., 448-	8661 Japan
hereinafter referred to	as Assignee, is o	desirous of acquiring an int	erest therein:	
acknowledged, Assigned interest, the full and excright to claim priority uras described in the sp. States application for p. Letters Patent therefor Letters Patent are granheld by Assignors had agree to execute all insulated States application of protecting title to the	ors by these presectusive right in the clusive right in the conder the laws of the ecification executatent therefor, said to be held and extend and any extending this assignment or for patent and a said invention, there without further mmissioner of Patessignee(s).	I and valuable consideratents do sell, assign and tracents do sell, assign and tracents do sell, assign and tracent united States and the Peted by Assignors of event dinvention and all United enjoyed by Assignee to the sions thereof as fully and early and sale not been made; aments required or request all foreign countries on, for e United States application or other compensation that tents and Trademarks to is	nsfer unto Assignee, and all foreign countraris Convention, to to date preparatory to States applications a full end of the terminatively as the same and Assignors here and for the making all litigation regarding, on for patent, or Letter and that above set fortissue said Letters Paragrand and Letters Parag	its successors in ries, including the said invention of filing a United for patent and all m for which said would have been by covenant and prosecution of for the purposers Patent thereforth; and Assignors tent of the United
RYO Kohaya Inventor 1: Ryo Koba	Shi -	Agri 25. 2001 Date	Keisuke Witness	Nagar
Inventor 1. Hyb 1000	manata	April 25, 200 Date		Magai
Cyphitaka Tou Inventor 3: Yoshitaka	1atall	April 25, 2001 Date		
Satoshi II	toh -	April 25, 200/	Keisuks Witness	
Inventor 5: Motohiro	<i>magach</i> i - Yamaguchi	april 25, 200/ Date April 25, 200/	<u>Keisuke</u> Witness	
July January Inventor 6: Satoshi I	zawa -	april 25, 2001 Date	Keisuke Witness	Nagai

✓ IF ADDITIONAL INVENTORS, check and continue on page 2.

ASSIGNMENT BY INVENTORS

Yoshiski Takono	april 26.2001	Keisuke Nagal
Inventor 7: Yoshiaki Takano	Date	Witness
Toshitaka Shemize	april 25.200/	Keisuke Nagai
Inventor 8: Toshitaka Shimizu	Date	Witness
Inventor 9:	Date	Witness
Inventor 10:	Date	Witness

RECORDED: 04/27/2001