Director of the U.S. Patent and Trademark Office **Box Assignments** Washington, D.C. 20231

RI

08-06-2002 102181172

DEPARTMENT OF COMMERCE Patent and Trademark Office

Attorney Docket No.

113360

To the Director of the U.S. Patent and Trademark Office: Please record the attached original document or copy thereof. 2. A. Name and address of receiving party: Name of conveying party: Yoshiharu TERADA NORITAKE CO., LIMITED 7.29.02 1-36, NORITAKE-SHINMACHI 3-CHOME, NISHI-KU, NAGOYA-SHI, AICHI-KEN, JAPAN Additional name(s) of conveying party(ies) attached? ☐ Yes 🛛 No Nature of conveyance: Additional name(s) & address(es) attached? ☐Yes ⊠ No ☐ Merger \boxtimes Assignment Security Agreement ☐ Change of Name Other ___ Execution Date: July 1, 2002 If this document is being filed together with a new application, the execution date of the application is: July 1, 2002 Patent Application No.(s) C. Patent No.(s) Name and address of party to whom correspondence Total number of applications and patents involved: 1 concerning document should be mailed: Name: James A. Oliff Enclosed (Check No. 132943) Address: OLIFF & BERRIDGE, PLC Credit any overpayment or charge any underpayment to P.O. Box 19928 deposit account number 15-0461. Alexandria, VA 22320 Statement and signature. 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. Date: July 29, 2002 James A. Oliff Registration No. 27,075 Thomas J. Pardini Registration No. 30,411 Tetal number of pages including cover sheet, attachments, and document: 2

08/06/2002 LMUELLER 00000072 10206337

01 FC:581

40.00 BP

PATENT REEL: 013144 FRAME: 0977

	Insert	(1)	ASSIGNMENT		美国語次元 P010609 H020952	
1-8)	Name(s)	(1)	Yoshiharu TERADA			
	of Inventor(s)	(3) (5)		(4)		
		(7)				
		paid t set ov	o each of the undersigned, each unders	e dollar (\$1.00) and igned agrees to assi	d other good and valuable consideration ign, and hereby does assign, transfer and	
	Insert Name of Assignee	(9)	NORITAKE CO., LIMITED			
)	Insert Address of Assignee	(10)		NT:-1: 1 NT	hi, Aichi-ken, Japan;	
		repres §100, divisi	in the invention, and in all applications	rest for the United St for patent including application(s), and	States of America as defined in 35 U.S.C., any and all provisional, non-provisional, all Letters Patent, extensions, reissues	
11)	Insert Identification such as Title, Case	(11)	11) GRINDING WHEEL, A PROCESS OF MANUFACTURING THE GRINDING WHEEL AND			
	ŕ		Λ PROCESS OF RECLAIMING TH	E GRINDING WH	EEL	
	Number, or Foreign Application Number	(Attorney Docket No. 113360				
		for wi	nich the undersigned has (have) execute on date herewith or	ed an application fo	r patent in the United States of America	
)	Insert Date of Signing of Application	(12)	on July 1, 2002			
)	Alternative Identification for filed applications	(13)	(13) U.S. application Serial Number			
		filed	July 29 2002			
	Each undersigned agree	s to exe	cute all papers necessary in connection	with any application	n and any continuing divisional or reissue	
y app signe tims of exami em sai rein a him a	1) Each undersigned agree ions for the invention, and any as the Assignee may deem not 2) Each undersigned agree dication or continuation or divise in every way possible in obt. 3) Each undersigned agree or provisions of the Internation 4) Each undersigned agree mation a grant of a valid Unite 5) Each undersigned authout application(s) to the said Assigned, and that he has not each this heirs, successors, assigned is Each undersigned hereb	s to exec patient(; cessary. s s to exec sion ther aining ex s to exec al Conve s to perf d States rizes and signee, a cecuted, ns and key y grants	cute all papers necessary in connection (s) issuing thereon, and also to execute some all papers necessary in connection eof, or any patent or reissue application idence and going forward with such in cute all papers and documents and perform all affirmative acts which may be patent to the Assignee. It requests the Director of Patents to issue and will not execute, any agreements in seal representatives.	with any interferent based thereon, for terference. Orm any act which introduced the same and all Letter overants that he has a conflict herewith,	ments. maintain or confirm by reissue or s Patents of the United States resulting full right to convey the entire interest and agrees that this assignment is binding this assignment any further identification	
y app signe ims o xami m sai rein a him a	1) Each undersigned agree ions for the invention, and any as the Assignee may deem net 2) Each undersigned agree dication or continuation or divide in every way possible in obt. 3) Each undersigned agree or provisions of the Internation 4) Each undersigned agree or provisions of the Internation 5) Each undersigned authout a grant of a valid Unite 5) Each undersigned authout application(s) to the said Assissigned, and that he has not example the said Assissigned, and that he has not example the said Assissigned, and that he has not example the said Assissigned authous the said Assissigned and that he has not example the said Assissigned and that he has not example the said Assissigned and that he has not example the said Assissigned and that he has not example the said Assissigned and that he has not example the said Assissigned and the said Assission and the said Assission as the said Assission and said Assission and the said Assission and the said Assission and	s to exect patent(); cessary, s to exect sion their aining even all Convex to perfect describes and leaves to executed, in and leaves to executed, in and leaves to executed, in and leaves to execute describes a leaves a	cute all papers necessary in connection (s) issuing thereon, and also to execute so cute all papers necessary in connection (eof, or any patent or reissue application) idence and going forward with such in cute all papers and documents and perfection for Protection of Industrial Proper (eof) and affirmative acts which may be patent to the Assignee. It requests the Director of Patents to issue as Assignee of the entire interest, and co and will not execute, any agreements in teal representatives.	with any interferent based thereon, for terference, orm any act which arty or similar agreem necessary to obtain, the any and all Letter ovenants that he has a conflict herewith, power to insert on the Patent and Trade	s in connection with such applications and ce which may be declared concerning the invention, and to cooperate with the may be necessary in connection with ments. The invention is confirmed by reissue or the series of the United States resulting full right to convey the entire interest and agrees that this assignment is binding this assignment any further identification that the series of the condition of this	
y appy signe ims o xamii m saii ein a him a t may cumer te te te te	1) Each undersigned agree ions for the invention, and any as the Assignee may deem ned. 2) Each undersigned agree lication or continuation or divise in every way possible in obt. 3) Each undersigned agree or provisions of the Internation. 4) Each undersigned agree mation a grant of a valid Unite. 5) Each undersigned authorid application(s) to the said Assissigned, and that he has not example and his heirs, successors, assig. 6) Each undersigned hereby be necessary or desirable in int. In witness whereof, execute. July 1, 2002	s to exec patent(; exession ther aining ex s to exec all Conve s to perf ed States rizes and signee, a executed, ns and k y grants order to	cute all papers necessary in connection (s) issuing thereon, and also to execute so issuing thereon, and also to execute so cute all papers necessary in connection eof, or any patent or reissue application idence and going forward with such in cute all papers and documents and perfection for Protection of Industrial Propersonal affirmative acts which may be patent to the Assignee. I requests the Director of Patents to issues Assignee of the entire interest, and country and will not execute, any agreements in gal representatives. The firm of OLIFF & BERRIDGE, PLC the comply with the rules of the United State undersigned on the date(s) opposite the Inventor Signature Inventor Signature Inventor Signature Inventor Signature Inventor Signature	with any interferent based thereon, for terference. orm any act which are the commany act which are the cessary to obtain, are any and all Letter ovenants that he has a conflict herewith, power to insert on the Patent and Trade the undersigned national and the conflict herewith.	s in connection with such applications and the ce which may be declared concerning the invention, and to cooperate with the may be necessary in connection with ments. The invention of the United States resulting full right to convey the entire interest and agrees that this assignment is binding this assignment any further identification emark Office for recordation of this the convey the entire interest and agrees that the convey the entire interest and agrees that the convey the entire interest and agrees that the assignment is binding this assignment any further identification emark Office for recordation of this the convey the entire interest and agrees that the assignment is binding the convey the entire interest and agrees that the convey the entire interest an	
ents: / appp / appp / app / ap	1) Each undersigned agree ions for the invention, and any as the Assignee may deem not 2) Each undersigned agree dication or continuation or divide in every way possible in obt. 3) Each undersigned agree or provisions of the Internation 4) Each undersigned agree mation a grant of a valid Unite. 5) Each undersigned authout application(s) to the said Assissigned, and that he has not example and his heirs, successors, assigments and the said of the encessary or desirable in the control of the said Assission of the said Assi	s to exce patient(; ceessary, s to execution therein the sign of the exception of the store exception of the store exception of the store exception of the sign of the sinterest of the sign of the sign of the sign of the sign of the si	cute all papers necessary in connection (s) issuing thereon, and also to execute so cute all papers necessary in connection (eof, or any patent or reissue application) idence and going forward with such in cute all papers and documents and perfection for Protection of Industrial Proper orm all affirmative acts which may be patent to the Assignee. It requests the Director of Patents to issues Assignee of the entire interest, and could not execute, any agreements in gal representatives. The firm of OLIFF & BERRIDGE, PLC the comply with the rules of the United State undersigned on the date(s) opposite the Inventor Signature Inventor Si	with any interferent based thereon, for terference, orm any act which introduced the same and all Letter wenants that he has a conflict herewith, power to insert on the Patent and Trade the undersigned nate.	s in connection with such applications and the which may be declared concerning the invention, and to cooperate with the may be necessary in connection with ments. The invention in the confirm by reissue or the invention or confirm by reissue or the series of the United States resulting full right to convey the entire interest and agrees that this assignment is binding this assignment any further identification the mark Office for recordation of this the content of	

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. 1f neither, then it should be signed before at least two witnesses who also sign here:

July 1, 2002

2002

RECORDED: 07/29/2002

Date

Date

PATENT REEL: 013144 FRAME: 0978