JRM PTO-1595

Jeffrey J. Sopko

Name of Person Signing

11-17-1999

Patent and Trademark Office

	attached original documents or copy thereo			
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):			
Motokazu Sasa, Yoshiaki Suzuki, and Yosuke Kanemoto	Name: SMK Corporation Internal Address:			
Additional name(s) of conveying party(ies) attached? 7 Yes 8 No	09/381662			
3. Nature of Conveyance: ☐ Merger	Street Address: 5-5, Togoshi 6-chome			
 ✓ Assignment ☐ Security Agreement ☐ Change of Name 	City: Shinagawa-ku, Tokyo 142-8511 State:			
□ Other	JAPAN Zip:			
Execution Date: September 9, 1999, September 9, 1999, and September 9, 1999	Additional name(s) of receiving party(ies) attached? Yes No			
4. Application number(s) or patent number(s):	1			
voil 1	d and a second second of the appellmentant in			
If this document is being filed together with a new application. September 9, 1999, September 9, 1999, and Septem				
PHIPHICAL 7. L777. MUDICHING J. LJJJ. GUU DVDIVIN	.001 24 1222			
September 7, 1777, September 2, 1777, and Septem				
A. Patent Application No.(s):	B. Patent No.(s):			
A. Patent Application No.(s):				
A. Patent Application No.(s):	B. Patent No.(s):			
A. Patent Application No.(s): Additional number(s) at 5. Name and address of party to whom correspondence concerning this document should be mailed:	B. Patent No.(s):			
A. Patent Application No.(s): Additional number(s) at 5. Name and address of party to whom correspondence concerning this document should be mailed: Name: Jeffrey J. Sopko	B. Patent No.(s): trached? O Yes S No. Contain number of applications and patents involved: 1			
A. Patent Application No.(s): Additional number(s) at 5. Name and address of party to whom correspondence concerning this document should be mailed: Name: Jeffrey J. Sopko 1999 CLAYERO 0000024 09381662	B. Patent No.(s):			
A. Patent Application No.(s): Additional number(s) at 5. Name and address of party to whom correspondence concerning this document should be mailed: Name: Jeffrey J. Sopko 1999 CLAYERS ************************************	B. Patent No.(s): trached? O Yes S No. Contain number of applications and patents involved: 1			
A. Patent Application No.(s): Additional number(s) at 5. Name and address of party to whom correspondence concerning this document should be mailed: Name: Jeffrey J. Sopko 1999 CLAYERO 0000024 09381662	B. Patent No.(s): trached? D Yes : No 6 Total number of applications and patents involved: 1 7 Total Fee (37 C.F.R. §3.41)			
A. Patent Application No.(s): Additional number(s) at 5. Name and address of party to whom correspondence concerning this document should be mailed: Name: Jeffrey J. Sopko 1999 CLAYERS ************************************	B. Patent No.(s): trached? Pyes PNo			
A. Patent Application No.(s): Additional number(s) at 5. Name and address of party to whom correspondence concerning this document should be mailed: Name: Jeffrey J. Sopko 1999 CLAYERS ************************************	B. Patent No.(s): trached? D Yes : No 6 Total number of applications and patents involved: 1 7 Total Fee (37 C.F.R. §3.41)			
A. Patent Application No.(s): Additional number(s) at 5. Name and address of party to whom correspondence concerning this document should be mailed: Name: Jeffrey J. Sopko 1999 CLAYERS ************************************	B. Patent No.(s): trached? Pyes : No 6 Total number of applications and patents involved: 1 7 Total Fee (37 C.F.R. §3.41) \$40.00			
A. Patent Application No.(s): Additional number(s) at 5. Name and address of party to whom correspondence concerning this document should be mailed: Name: Jeffrey J. Sopko 1999 CLAYER *** Suitable Address: 526 Saparity Avenue, East Suitable 1200 City: Cleveland State: OH Zip: 44114-1484	B. Patent No.(s): trached? Yes No. 6 Total number of applications and patents involved: 1 7 Total Fee (37 C.F.R. §3.41)			

Total number of pages including cover sheet, attachments, and document: 3

PATENT

REEL: 010378 FRAME: 0085

September 20, 1999

Date

ASSIGNMENT

WHEREAS, new and useful improvements have been made by the undersigned in

PRINTED-CIRCUIT	BOARD

and are the subject of a patent application prepared for filing in the United States Patent and Trademark Office, and executed by the undersigned on the dates indicated below in the appropriate spaces to the left of the signatures of the undersigned, which application is further identified as Pearne, Gordon, McCoy & Granger Docket No. 31972.

WHEREAS, SMK CORPORATION, a corporation of Japan, having a place of business at 5-5, Toqoshi 6-chome. Shinagawa-ku, Tokyo 142-8511 Japan hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said improvements and inventions and all patents, patent applications, patent rights, and inventor's certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold. assigned, transferred, and delivered unto assignee, its successors and assigns; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

The undersigned hereby grants the firm of Pearne, Gordon, McCoy & Granger the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

PGM&G PT605

Page 1 of 2

PATENT REEL: 010378 FRAME: 0086

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

	Date 1 Signed Declaration		Today's Date	4
Witness	September	9,1999	September 9,1999	Mutokazu Sasa Name: Motokazu SASA
Witness	Address:	Suganosa	CORPORATION Ibarak ku, Isohara, Isoha 319-1541 Japan	xi Works, 1608 Aza ara-cho, Kitaibaraki-shi,
	Date 1 Signed Declaration		Today's Date	
Witness	September	9,1999	September 9,1999	Name: Yoshiaki SUZUKI
Witness	Address:	Suganosa	CORPORATION Ibarak uku, Isohara, Isoha 319-1541 Japan	ki Works, 1608 Aza ara-cho, Kitaibaraki-shi,
	Date I Signed Declaration		Today's Date	,
Witness	September	9,1999	September 9,1999	Name: Yosuke KANEMOTO
Witness	Address:		CORPORATION, 5-5, va-ku, Tokyo 142-8!	
	Date 1 Signed Declaration		Today's Date	
Witness				Name:
Witness	Address:			

Page 2 of 2

RECORDED: 09/20/1999

PGM&G PT605