CERTIFICATE OF MAILING BY FIRST CLASS MAIL



I hereby certify that this document is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner For Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on the date set forth below.

Date of signature and deposit - Lept. 23, 2003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

)	
)	Group Art Unit 2875
)	
)	
)	
)	
)	
)	Attorney Docket 1-23649
)	
))))))))

Commissioner For Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT

Honorable Sir:

Pursuant to 37 C.F.R. 1.97(b), record is hereby made of information that the Patent Office may wish to consider in connection with its examination of the above-identified application. Copies of such information, as well as a completed PTO-1449 form, are enclosed.

Respectfully submitted,

Richard S. MacMillan Reg. No. 30,085

MacMillan, Sobanski & Todd One Maritime Plaza, Fourth Floor 720 Water Street Toledo, Ohio 43604 (419) 255-5900



OIP	E VON					Pag	ge lof4	L	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO 1-23649	SERIAL	Page 1 of 4 SERIAL NO. 10/285,312				
CAVE TRA	PATENT AND TRADEMARK OFFICE TRADE NOT FORMATION DISCLOSURE STATEMENT BY APPLICANT			APPLICANT JAMES E. SMITH et al.					
				FILING DATE October 31, 200	02	GROUP 2875			
		U.S.	PATENT I	OCUMENTS					
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	NAME CLA		CLASS SUBCLAS		FILING DATE	
	3,634,677	1/1972	Stuttgart e	et al.					
	3,939,339	2/1976	Alphen						
	3,953,726	4/1976	Scarritt, S	r.					
	4,024,388	5/1977	Skoff						
	4,066,886	1/1978	Martin						
	4,162,424	7/1979	Zillgitt et	al.				·	
	4,186,428	1/1980	Deverrew	aere					
	4,204,270	5/1980	d'Orsay						
	4,217,631	8/1980	Bergkvist						
·	4,225,902	9/1980	Ishikawa	et al.					
	4,310,172	1/1982	Claude et	al.					
	4,583,152	4/1986	Kawai et al.						
	4,768,135	8/1988	88 Kretschmer et al.						
	4,791,343	12/1988	988 Ahrendt						
	4,833,573	5/1989	Miyauchi	Miyauchi et al.					
	4,868,720	9/1989	Miyauchi	Miyauchi et al. Soardo					
	4,868,721	9/1989	Soardo						
	4,870,545	9/1989	Hatanaka	et al.					
	4,891,559 1/1990 Matsum			o et al.					
	4,907,877	3/1990	Fukuda et	al.					
		FOREI	GN PATEN	T DOCUMENT	rs				
EXAMINER	DOCUMENT	DATE	COUNTRY		CLASS		TRANSL	ATION	
INITIAL	NUMBER					s	YES	NO	
	EP0306611	3/1989	E.P.O.				(abstra	ct)	
			 				<u> </u>		
	OTHER DOC	CUMENTS (Incl	uding Autho	or, Title, Date, P	ertinent Pa	ges, Etc.)			
	<u> </u>								
	1 . 6		• • •	DATE CONSIDEREI		TD 600 F			
EXAMINER: In	itial if citation consi	iaerea, whether o	r not citation	i is in contorman	ce with MPI	EP 609; Di	aw line t	nrougn	



citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

OIF	E				o	Page	2 of 4		
	<u> </u>	DEDART COT O	COM OFFICE	ATTY. DOCKET NO.					
SEP 2 S	SEP 2 5 2003 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			1-23649		SERIAL NO. 10/285,312			
TRAIL	PATENT AND TRADEMARK OFFICE PATENT AND TRADE		APPLICANT JAMES E. SMITH et al.						
				FILING DATE October 31, 2002		GROUP 2875			
		U.S.	PATENT I	DOCUMENTS		<u> </u>			
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME		CLASS	SUBCLASS	1	NG DATE PPROPRIATE	
	4,908,560	3/1990	Shibata et	al.					
	4,916,587	4/1990	Hirose et	al.	İ				
	4,943,893	7/1990	Shibata et	al.	1				
	4,948,249	8/1990	Hopkins e	et al.					
	5,060,120	10/1991	Kobayash	i et al.	Ì				
	5,099,400	3/1992	Lee						
	5,158,352	10/1992	Ikegami e						
	5,164,785	11/1992	Hopkins 6						
	5,181,429	1/1993	Sieber						
	5,193,894	3/1993	Lieter et a	ıl.					
	5,331,393	7/1994	Hopkins e	et al.					
	5,373,357	12/1994	Hopkins et al.						
	5,392,111	2/1995	Murata et al.						
	5,404,278	4/1995	Shibata et al.						
	5,426,571	6/1995	Jones	Jones					
	5,428,512	6/1995	Mouzas						
	5,485,265	1/1996	Hopkins	***					
	5,526,242	6/1996	Takahash	i et al.					
	5,550,717	8/1996	Liao						
	5,633,710	5/1997	Kumra					·	
		FOREI	GN PATEN	T DOCUMENTS					
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY		CLASS	SUBCLASS	TRANSL YES	ATION NO	
								+	
			-						
	OTHER DOCU	MENTS (Incl	uding Autho	or, Title, Date, Perti	nent Pag	ges, Etc.)			



DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

. 01	PE									
						Page	3 of 4			
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE PATENT AND TRADEMARK OFFICE STATEMENT BY APPLICANT			F COMMERCE MARK OFFICE	ATTY. DOCKET NO. 1-23649	SERIAL NO. 10/285,312					
A TRAD	STATEMENT B	N DISCLOSUI Y APPLICAN	RE IT	APPLICANT JAMES E. SMIT	H et al.					
				FILING DATE October 31, 2002		GROUP 2875	-	1 ° 1 ° 1 ° 1 ° 1 ° 1 ° 1 ° 1 ° 1 ° 1 °		
		U.S.	PATENT I	DOCUMENTS		<u></u>				
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME		CLASS	SUBCLASS	1	NG DATE		
	5,660,454	8/1997	Mori et al	l.						
	5,707,129	1/1998	Kobayash	ni .						
	5,751,832	5/1998	Panter et	al.						
	5,779,342	7/1998	Kluge							
	5,781,105	7/1998	Bitar et al			1				
	5,785,405	7/1998	Huhn							
	5,868,488	2/1999	Speak et a	al.						
	5,877,680	3/1999	Okuchi et	al.						
	5,896,011	4/1999	Zillgitt							
	5,907,196	5/1999	Hayami e	t al.						
	5,920,386	7/1999	Panter et	Panter et al.						
	5,938,319	8/1999	Hege	Hege						
	5,977,678	11/1999	Miller et	Miller et al.						
	6,010,237	1/2000	Gotou							
-	6,049,749	4/2000	Kobayash							
	6,097,156	8/2000	Diep							
1	6,118,113	9/2000	Hibbard e	et al.						
	6,142,655	11/2000	Zillgitt et	al.						
<u> </u>	6,144,159	11/2000	Lopez et al.					-		
	6,176,590	1/2001	Prevost et		<u> </u>					
	<u> </u>	FOREI	GN PATEN	T DOCUMENTS	<u> </u>					
EXAMINER	DOCUMENT	DATE	COUNTRY		CLASS	SUBCLASS	TRANSL	ATION		
INITIAL	NUMBER	_					YES	NO		
	OTHER DOCU	MENTS (Incl	uding Auth	or, Title, Date, Per	tinent Pag	ges, Etc.)				
		 -								
				-						
	DATE CONSIDERED									



EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

	U.S. D. PATEN ORMATION D. TEMENT BY		ARK OFFICE	ATTY. DOCKET NO. 1-23649 APPLICANT JAMES E. SMITH	et al.	Page SERIAL NO. 10/285,3		
			FILING DATE October 31, 2002	GROUP 2875				
		U.S.	PATENT I	OCUMENTS		•		
EXAMINER DOCUMENT DATE NAME INITIAL NUMBER 6,183,118 2/2001 Toda et		NAME Toda et al		CLASS	SUBCLASS		NG DATE PPROPRIATE	
	93,398 27,691	2/2001 5/2001	Okuchi et al. Hogrefe et al.					
	31,216 34,654	5/2001 5/2001	Frasch Okuchi et al.					
	81,632 93,686	8/2001 9/2001	Stam et al. Hayami et al.					
200	1/0019225	9/2001	Toda et al					
	-							
		FOREIC	N PATEN	T DOCUMENTS		<u> </u>		
EXAMINER DOCUMENT DATE COUNTRY INITIAL NUMBER					CLASS	SUBCLASS	TRANSL. YES	ATION NO
OTI	HER DOCUM	ENTS (Inclu	ding Autho	r, Title, Date, Pertin	ent Page	es, Etc.)		

DOCKET A L A R M Find authenticated court documents without watermarks at docketalarm.com.

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.