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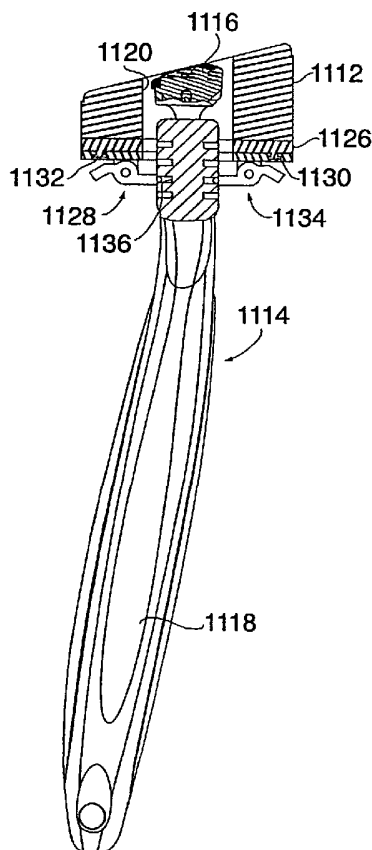
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(54) Title: WET SHAVING ASSEMBLY



(57) Abstract: A shaving assembly (1110) operable in dry shaving environments and wet shaving environments is provided that includes a razor assembly (1114) and a shaving preparation cake (1112). The razor assembly (1114), which includes a razor cartridge (1116) attached to a handle (1118), is operable in dry shaving environments and wet shaving environments. The shaving preparation cake (1112) includes an upper surface, a lower surface, one or more side surfaces extending between the upper surface and the lower surface, and an axial bore (1120) extending between the upper surface and the lower surface. The shaving preparation cake (1112) is operable in a wet shaving environment, and is selectively attachable to the razor assembly (1114) for wet shaving environment applications. When the shaving preparation cake (1112) is attached to the razor assembly (1114), the razor cartridge (1116) is disposed within the axial bore (1120) of the shaving preparation cake (1112). The shaving preparation cake (1112) is selectively detachable from the razor assembly (1114) to facilitate use of the razor assembly in dry shaving environment applications.

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 125 697 A (WARNER LAMBERT CO) 22 August 2001 (2001-08-22) paragraphs '0064! - '0073! paragraphs '0084! - '0086! figures 1-5B -----	1-7, 12-14
A	US 3 969 817 A (DIBUONO FRANK M) 20 July 1976 (1976-07-20) column 2, line 15 - line 47; figure 5 -----	9
A	US 3 477 127 A (REGAN MALACHY J) 11 November 1969 (1969-11-11) figure 1 -----	15
A	WO 94/11163 A (WARNER LAMBERT CO) 26 May 1994 (1994-05-26) the whole document -----	3
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Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 895 437 A (DIBUONO FRANK M) 22 July 1975 (1975-07-22) the whole document -----	1-10, 12-14
P,X	US 2003/167644 A1 (CICCONE CHRISTINE M ET AL) 11 September 2003 (2003-09-11) paragraph '0020! - paragraph '0025!; figures 1-7 -----	1-15
P,X	WO 03/090984 A (CICCONE CHRISTINE MARIE ; FOLLO BRIAN ANTHONY (US); MOTTA VINCENT COSM) 6 November 2003 (2003-11-06) the whole document -----	1-15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

/US2004/0 14364

Patent document cited in search report	Publication date	Publication date	Patent family member(s)	Publication date
EP 1125697	A	22-08-2001	US 2003014866 A1	23-01-2003
			AU 1369901 A	23-08-2001
			CA 2330374 A1	16-08-2001
			DE 60100512 D1	04-09-2003
			DE 60100512 T2	15-04-2004
			EP 1125697 A1	22-08-2001
			JP 2001286686 A	16-10-2001
			US 2003121154 A1	03-07-2003
			US 2003167644 A1	11-09-2003
			US 2004010918 A1	22-01-2004
US 3969817	A	20-07-1976	NONE	
US 3477127	A	11-11-1969	NONE	
WO 9411163	A	26-05-1994	AU 5551994 A	08-06-1994
			CA 2144437 A1	26-05-1994
			DE 69318035 D1	20-05-1998
			DE 69318035 T2	15-10-1998
			EP 0667813 A1	23-08-1995
			JP 8503399 T	16-04-1996
			WO 9411163 A1	26-05-1994
			US 5369885 A	06-12-1994
			US 3895437	A
US 2003167644	A1	11-09-2003	US 2003014866 A1	23-01-2003
			WO 2004024404 A2	25-03-2004
			AU 1369901 A	23-08-2001
			CA 2330374 A1	16-08-2001
			DE 60100512 D1	04-09-2003
			DE 60100512 T2	15-04-2004
			EP 1125697 A1	22-08-2001
			JP 2001286686 A	16-10-2001
			US 2003121154 A1	03-07-2003
			US 2004010918 A1	22-01-2004
WO 03090984	A	06-11-2003	WO 03090984 A2	06-11-2003
			US 2003200660 A1	30-10-2003