



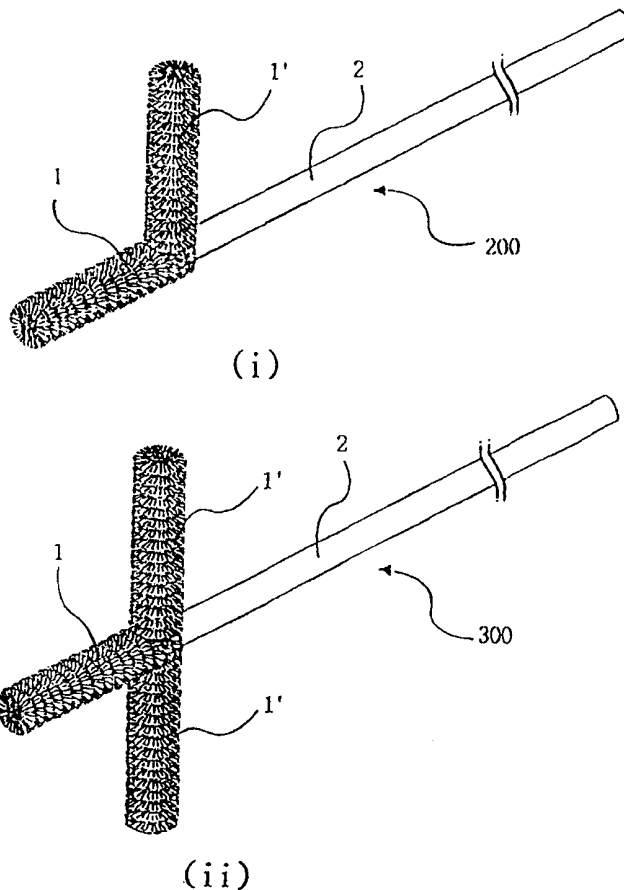
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification ⁷ : A61B 10/00</p>	<p>A3</p>	<p>(11) International Publication Number: WO 00/09984 (43) International Publication Date: 24 February 2000 (24.02.00)</p>
<p>(21) International Application Number: PCT/KR99/00433 (22) International Filing Date: 5 August 1999 (05.08.99) (30) Priority Data: 1998/33549 17 August 1998 (17.08.98) KR (71)(72) Applicant and Inventor: JUNG, Hyuk [KR/KR]; 107-1201, Hyundai Apt., 631-1, Woosan-dong, Buk-ku, Kwangjoo 500-080 (KR). (74) Agents: LEE, Jae, Min et al.; Jinsung Building, 4th Floor, 736-8, Yoksam-dong, Kangnam-ku, Seoul 135-080 (KR).</p>	<p>(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>With international search report.</i></p> <p>(88) Date of publication of the international search report: 22 June 2000 (22.06.00)</p>	

(54) Title: STRUCTURE OF BRUSH FOR EXAMINING UTERINE CERVICAL CANCER

(57) Abstract

Provided with a brush (300) for use in an examination method of uterine cervical cancer which has a brush part (1) formed on a 15 cm-length and 2.5 mm-diameter soft plastic grip (2), the brush (300) including: a 1.2 cm-length screw wire being provided with the 5 mm-diameter brush part (1) formed thereon, wherein the screw wire with the brush part (1) is inserted lengthwise in the grip (2); and a 5 mm-diameter side brush part (1') being formed integrally with the brush part (1) on either side or both sides of the 2 cm-length screw wire.



FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav Republic of Macedonia	TM	Turkmenistan
BF	Burkina Faso	GR	Greece			TR	Turkey
BG	Bulgaria	HU	Hungary	ML	Mali	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MN	Mongolia	UA	Ukraine
BR	Brazil	IL	Israel	MR	Mauritania	UG	Uganda
BY	Belarus	IS	Iceland	MW	Malawi	US	United States of America
CA	Canada	IT	Italy	MX	Mexico	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NE	Niger	VN	Viet Nam
CG	Congo	KE	Kenya	NL	Netherlands	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NO	Norway	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's Republic of Korea	NZ	New Zealand		
CM	Cameroon			PL	Poland		
CN	China	KR	Republic of Korea	PT	Portugal		
CU	Cuba	KZ	Kazakistan	RO	Romania		
CZ	Czech Republic	LC	Saint Lucia	RU	Russian Federation		
DE	Germany	LI	Liechtenstein	SD	Sudan		
DK	Denmark	LK	Sri Lanka	SE	Sweden		
EE	Estonia	LR	Liberia	SG	Singapore		

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR 99/00433

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁷: A61B 10/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: A61B 10/00

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 practicable, search terms used)

WPI, EPODOC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GB 2208603 A (RICHARDS P.W.) 12 April 1989 (12.04.89), abstract, fig. 1,3,4, claims 1,3, totality.	1
Y	US 4759376 A (STORMBY N.) 26 July 1988 (26.07.88), totality.	1
Y	US 4227537 A (SUCIU T.N. et al.) 14 October 1980 (14.01.80), totality.	1
Y	EP 763345 A1 (VANCE PROD. INC.) 19 March 1997 (19.03.97), totality.	1
Y	DE 4005266 A1 (GEKA-BRUSH) 22 August 1991 (22.08.91), totality.	1
Y	US 4108162 A (CHIKASHIGE K. et al.) 22 August 1978 (22.08.78), totality.	1

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

„A“ document defining the general state of the art which is not considered to be of particular relevance

„E“ earlier application or patent but published on or after the international filing date

„L“ document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

„O“ document referring to an oral disclosure, use, exhibition or other means

„P“ document published prior to the international filing date but later than the priority date claimed

„T“ later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

„X“ document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

„Y“ document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

„&“ document member of the same patent family

Date of the actual completion of the international search

10 April 2000 (10.04.00)

Date of mailing of the international search report

17 April 2000 (17.04.00)

Name and mailing address of the ISA/AT
Austrian Patent Office
Kohlmarkt 8-10; A-1014 Vienna
Facsimile No. 1/53424/200

Authorized officer

Ludwig

Telephone No. 1/53424/349

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR 99/00433

The document GB 2208603 A relates to an endo- and ectocervical cell sampling device. The device consists of a single handle with a terminal brush (for endocervical sampling) and another brush/brushes (for ectocervical sampling) approximately perpendicular to it.

The documents US 4759376 A, US 4227537 A, EP 763345 A1, DE 4005266 A1 and US 4108162 A relate to cervical cell sampling devices; all devices consist of a (plastic) grip of 10-18 cm in length and a twisted wire portion with an I-shaped brush portion of 1,5 - 7 mm in diameter and 1,5 - 5 cm in length, respectively.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR 99/00433

Patent document cited in search report			Publication date	Patent family member(s)			Publication date
GB	A1	2208603	12-04-1989	GB	A0	8715638	12-08-1987
US	A	4759376	26-07-1988	CA	A1	1264135	02-01-1990
				GB	A0	8513203	26-06-1985
				GB	A1	2159420	04-12-1985
				GB	B2	2159420	11-05-1988
US	A	4227537	14-10-1980	none			
EP	A1	763345	19-03-1997	AU	A1	65604/96	20-03-1997
				AU	B2	696674	17-09-1998
				CA	AA	2185266	14-03-1997
				JP	A2	9108227	28-04-1997
				US	A	5713369	03-02-1998
DE	A1	4005266	22-08-1991	none			
US	A	4108162	22-08-1978	DE	A1	2657983	07-07-1977
				DE	B2	2657983	28-09-1978
				DE	C3	2657983	07-06-1979
				JP	A2	52081980	08-07-1977
				JP	B4	61011109	01-04-1986