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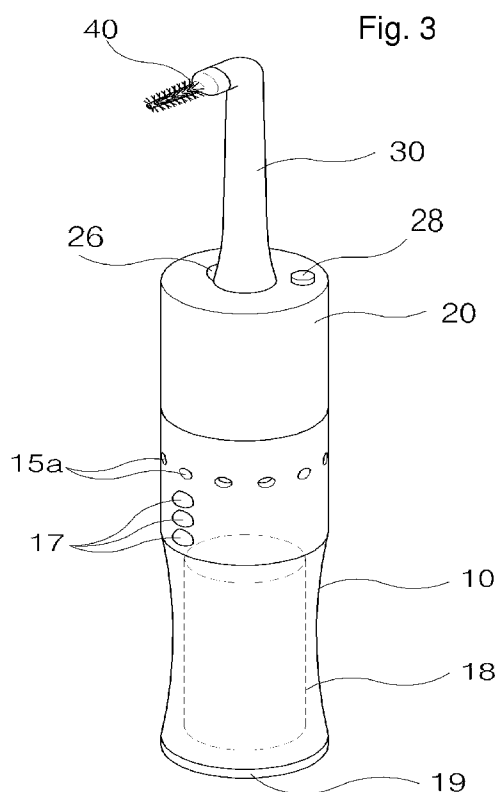
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(54) Title: AN AIR INJECTION TYPE PORTABLE DENTAL FLOSSES



(57) Abstract: An air injection portable inter-dental toothbrush can be devised consisting of: driving section (10), including air injection pan (14), filter (15) for removing foreign aerial substance from outside, pan motor (16) for bringing in air and supplying it to air injection pan (14), battery (18) as a power for driving the pan and a battery still attached bedding (19); cleaning section (20), including cleansing fluid inlets and hose (24) which is composed of a container (21) for keeping cleansing fluid, where the cleansing fluid container (21) is connected to the hose while the other end of the latter being attached to the center of the gravity so that the fluid inlets and hose can infuse cleansing fluid no matter how the container's position changes, a valve (26) which can control cleansing fluid flow, a stopper (28) by which cleansing fluid being refilled or replaced; injecting section (30), including injecting nozzle 1 (31) where air brought in by driving section (10) and cleansing fluid supplied by cleaning section (20) blending and being injected; next to which inter-dental toothbrush section (40), including an outlet (43) for discharging air and cleansing fluid, holes (44) in plural numbers for injecting air and cleansing fluid perpendicularly and aslant, injection nozzle 2 (46a, 46b) with toothbrush bristle stuck for injecting.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2008/005944**A. CLASSIFICATION OF SUBJECT MATTER****A61C 15/00(2006.01)i**

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)

IPC: A61C 15/00

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

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and applications for Utility models since 1975

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

eKIPASS(KIPO internal) & keywords :inter dental, flosser, air injection, oral hygiene

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5718667 A (TOMOHISA SIGIMOTO et al.) 17 February 1998 See Abstract; Figs. 1-3; Col. 2 Line 40-Col.3 Line 22	1-17
A	US 6622333 B1 (STEVEN REHKEMPER et al.) 23 September 2003 See Abstract; Figs. 1-9; Col.2 Lines 10-51	1-17
A	JP 19-190291 A (JITSUMATSU WATARU) 2 August 2007 See Abstract; Figs. 1-2; Claims	1-17
A	KR 200217315 Y1 (CHEON SANG-YOON) 15 March 2001 See Abstract; Figs. 1-6; Claims	1-17
A	KR 1996-30897 A (HYU UOO-YANG) 17 September 1996 See Abstract	1-17

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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Information on patent family members

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