



(11) **EP 1 982 613 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
03.11.2010 Bulletin 2010/44

(51) Int Cl.:
A45D 29/05 (2006.01) A45D 29/14 (2006.01)

(43) Date of publication A2:
22.10.2008 Bulletin 2008/43

(21) Application number: **08153456.2**

(22) Date of filing: **27.03.2008**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT
RO SE SI SK TR**
Designated Extension States:
AL BA MK RS

(72) Inventors:
• **Tagaya, Yasuko**
Chiyoda, Tokyo (JP)
• **Hayashi, Kenya**
Matsumoto Nagano (JP)

(30) Priority: **29.03.2007 JP 2007087694**

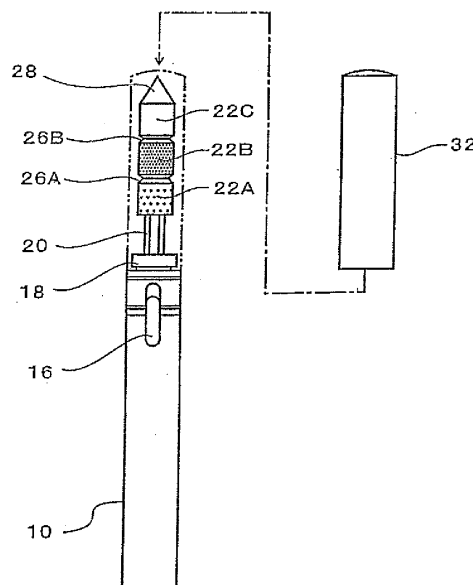
(74) Representative: **Jenkins, Peter David**
Page White & Farrer
Bedford House
John Street
London WC1N 2BF (GB)

(71) Applicant: **IZUMI PRODUCTS COMPANY**
Matsumoto,
Nagano (JP)

(54) **Electric nail polisher**

(57) An electric nail polisher that includes a file member rotationally driven by a motor 14 is comprised of a substantially tube-shaped grip unit 10 for housing the motor 14 and a battery 12; a rotary shaft 20 that protrudes from the center of one end of that grip unit 10 in the longitudinal direction of the grip unit 10; three file members 26 of a fixed diameter and of different file tooth coarseness, which are closely in contact in the axial direction of that rotary shaft 20, ring-shaped V grooves 26 formed in the outer circumferences of the contact portions of adjacent file members in which file teeth of different coarseness are formed, and a conical file member 28 for nail edge finishing which protrudes from the tip end surface of the file member at the tip end.

FIG. 1



EP 1 982 613 A3



EUROPEAN SEARCH REPORT

Application Number
EP 08 15 3456

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 5 161 552 A (KATHURIA MINESHWAR K [US]) 10 November 1992 (1992-11-10) * column 2 - column 3; figures 1-4 * -----	1-6	INV. A45D29/05 A45D29/14
X	DE 14 57 442 A1 (PAUL KG ALFRED) 13 March 1969 (1969-03-13) * the whole document * -----	1-6	
			TECHNICAL FIELDS SEARCHED (IPC)
			A45D
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 23 September 2010	Examiner Ionescu, C
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

1
EPO FORM 1503 03/82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 08 15 3456

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

23-09-2010

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5161552	A	10-11-1992	NONE
DE 1457442	A1	13-03-1969	NONE