

CORRECTED VERSION

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 July 2003 (17.07.2003)

PCT

(10) International Publication Number
WO 2003/057999 A3

(51) International Patent Classification⁷: **A61B 17/50**

(21) International Application Number:
PCT/US2002/040888

(22) International Filing Date:
20 December 2002 (20.12.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/346,417 29 December 2001 (29.12.2001) US
10/313,115 9 December 2002 (09.12.2002) US

(71) Applicants: **SPARTAN IMPORT & EXPORT, LLC**
[US/US]; 36 Paperchase Dr., Farmington, CT 06032
(US). **MAIN POWER ELECTRICAL FACTORY, LTD**
[CN/CN]; 4th Flr, Yau Lee Centre, 45 Hoi Yuen Rd.,
Kwuntong, Hong Kong (CN).

(72) Inventors: **DAVIS, Alice**; 6226 West Decker, Livingston,
MI 49431 (US). **ZAINO, Nancy**; 36 Paper Chase Dr.,

Farmington, CT 06032 (US). **ASHWORTH, Steven**; 7008
Bandy Road, Richmond, VA 23229 (US). **LEE, Kwok,
Kay**; 4th Flr, Yau Lee Centre, Hoi Yuen Road, Kwun
Tong, Hong Kong (CN).

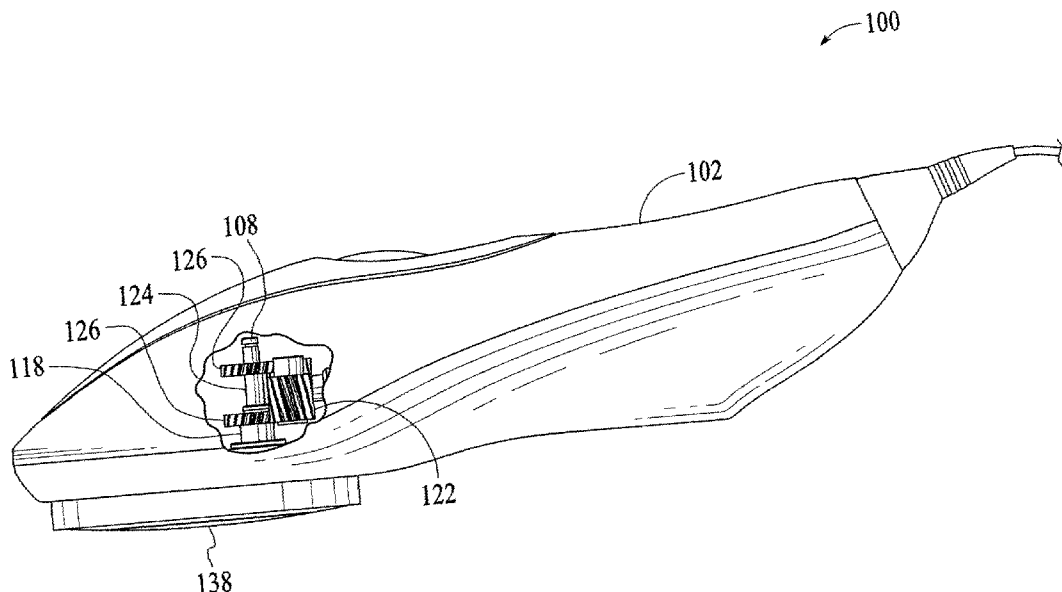
(74) Agent: **MARINO, Frank**; U.S. Patent Agent, 394 Mered-
ith Neck Rd, Meredith, NH 03253 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG,
SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU,
ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK,
TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: ELECTRICAL HAIR BUFFING APPARATUS



(57) Abstract: A hair-removing and exfoliating device (100) is provided with a pair of counter-rotating abrasive surfaces (128, 134) for pressing against the skin to abrade hair there-from and to exfoliate the skin. The surfaces (128, 134) may be adapted for continual alternating movement in counter-rotating directions at the surface of the skin. In the preferred embodiment, two concentric counter-rotating abrasive surfaces (214, 216) are provided, one rotating clockwise and the other rotating counterclockwise.

WO 2003/057999 A3



Published:

— *with international search report*

(15) Information about Correction:

see PCT Gazette No. 31/2004 of 29 July 2004, Section II

(88) Date of publication of the international search report:

22 January 2004

(48) Date of publication of this corrected version:

29 July 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.