

(51) International Patent Classification:
A61B 1/00 (2006.01)

(21) International Application Number:

PCT/EP2014/000296

(22) International Filing Date:

4 February 2014 (04.02.2014)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

13000552.3	4 February 2013 (04.02.2013)	EP
61/760,507	4 February 2013 (04.02.2013)	US
13000553.1	4 February 2013 (04.02.2013)	EP
61/760,511	4 February 2013 (04.02.2013)	US
13001748.6	5 April 2013 (05.04.2013)	EP
61/809,048	5 April 2013 (05.04.2013)	US

(71) Applicant: **HELEN OF TROY LIMITED** [BB/BB]; The Phoenix Centre, George Street, Belleville, St. Michael (BB).

(72) Inventors; and

(71) Applicants (for PE only): **RUPPERSBERG, Peter** [DE/CH]; Chemin du Signal 53, 1807 Blonay (CH). **LEP-
PLE-WIENHUES, Albrecht** [DE/FR]; 5 Rue de Besancon, F-25300 Pontarlier (FR).(74) Agents: **GRAF VON STOSCH, Andreas** et al.; Graf von Stosch, Patentanwaltsgesellschaft mbH, Prinzregentenstrasse 22, 80538 München (DE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

[Continued on next page]

(54) Title: OTOSCOPE

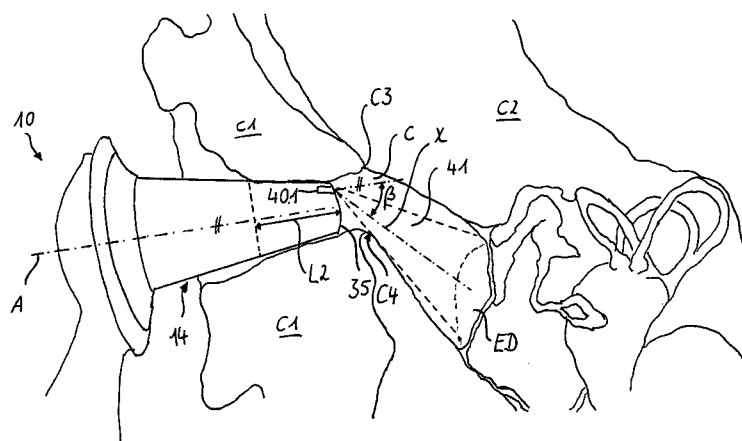


Fig. 22

(57) Abstract: The present invention refers to an otoscope (10) comprising a handle portion (12) allowing a user to manipulate the otoscope (10) during its application; and a head portion (14) exhibiting a substantially tapering form extending along a longitudinal axis (A) of the head portion (14), wherein the head portion (14) has a proximal end (16) adjacent to the handle portion (12) and a smaller distal end (18) configured to be introduced in an ear canal of a patient's outer ear. The otoscope (10) further comprises an optical electronic imaging unit positioned at the distal end (18) of the head portion (14), especially at a distal tip (35) of the head portion (14), wherein the electronic imaging unit (40) exhibits at least one optical axis (X; X1, X2) which is positioned radially offset from the longitudinal axis (A), and wherein the distal end (18) is configured for accommodating the electronic imaging unit (40) in such a way that the radial offset (r1) can be maximum with respect to the diameter of the distal end (18).



Published:

- *without international search report and to be republished
upon receipt of that report (Rule 48.2(g))*