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

(72) Inventor; and

(71) Applicant (for PE only): LEPPLE-WIENHUES, Albrecht [DE/FR]; 5, rue de Besançon, F-25300 Pontarlier (FR).

(74) Agents: GRAF VON STOSCH, Andreas et al.; Graf von Stosch, Patentanwalts-gesellschaft mbH, Prinzregentenstrasse 22, 80538 München (DE).

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(54) Title: OTOSCOPE AND OTOSCOPIC METHOD BASED ON SPECTRAL ANALYSIS

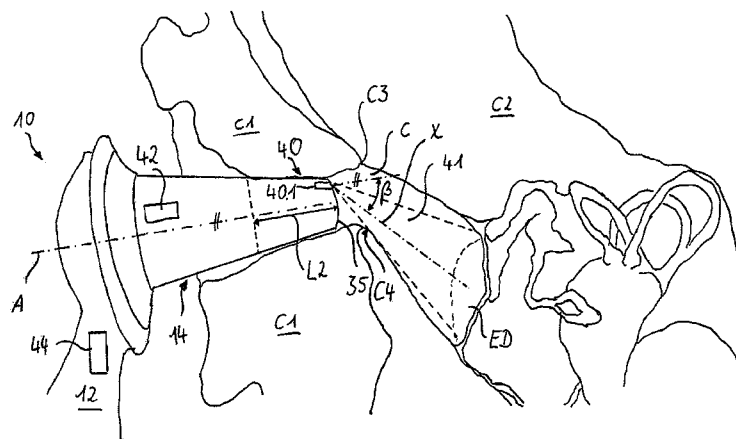


Fig. 1

(57) Abstract: The invention relates to an otoscope device (10), especially configured to be manipulated by a layperson during its application, comprising a radiation sensing unit (40.1) configured for detecting radiation reflected by the patient's outer ear, especially by the eardrum; wherein the otoscope device further comprises electronic and/or optic means (44) configured for determining spectral information of reflected radiation, especially with respect to wavelengths shorter than 500nm to 480nm, and configured for determining a ratio of radiation in the spectrum below 480nm to 500nm to radiation in the spectrum above 480nm to 500nm, especially based on a specific intensity of reflected radiation within the spectrum of blue light and/or UV radiation. Further, the invention relates to a method of identifying and/or locating objects in a subject's ear or to a method of identifying or characterizing an eardrum. Further, the invention relates to a method of determining the risk of a pathologic state of the eardrum and its vicinity and to provide the user with a risk index for inflammation.