

Title (en)
METHOD AND DEVICE FOR LOCALIZING THE APEX OF A TOOTH

Title (de)
VERFAHREN UND GERÄT ZAHNPULPAORTUNG

Title (fr)
PROCEDE ET DISPOSITIF DE LOCALISATION DE L'APEX D'UNE DENT

Publication
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Application
EP 95901475 A 19941109

Priority

- FR 9401315 W 19941109
- FR 9313802 A 19931109

Abstract (en)
[origin: WO9513032A1] Method of localizing the apex (4) of a root canal (3) of a tooth (1), using electrodes, with a measuring electrode (A) being inserted in the root canal (3) and a reference electrode (B) being placed in the mouth (5). The invention is characterized in that a second reference electrode (C) is placed in the mouth (5) and in that three impedance measurements (X, Y, Z) are effected between electrodes (A and B), (A and C) and (B and C) respectively. Based on the relation $X + Y - Z = 2R$, where R is the impedance of the fraction of the root canal (3) between the measuring electrode (A) and the apex (4), the impedance of the root canal (3) being a linear function of the length an evaluation, or determination, and display is effected of the distance separating, on each measurement of the set of values (X, Y, Z), said measuring electrode (A) from the apex (4), the operation then being repeated in a cyclic or non-cyclic manner.

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