

Title (en)
NONINVASIVE MONITORING OF INTRACRANIAL PRESSURE

Title (de)
NONINVASIVE BEOBACHTUNG DES INTRAKRANIALEN DRUCKES

Title (fr)
SURVEILLANCE NON INVASIVE DE LA PRESSION INTRACRANIENNE

Publication
EP 1182969 A2 20020306 (EN)

Application
EP 00927617 A 20000509

Priority

- IB 0000595 W 20000509
- US 30756899 A 19990510

Abstract (en)

[origin: WO0068647A2] A noninvasive method of monitoring the intracranial pressure (ICP) of a patient. At least one waveform representative of a pulsation of an anatomical feature of the patient's head is obtained, preferably by integrating ultrasound reflection traces in a time gate corresponding to reflections from the feature. The preferred anatomical feature is the third cerebral ventricle. A quantitative measure of ICP is inferred from two or more diagnostic features, such as diagnostic times, associated with the waveform. Alternatively, a qualitative measure of ICP is obtained from the shape of the respiratory wave imposed on the train of waveforms by the patient's breathing.

[origin: WO0068647A2] A noninvasive method of monitoring the intracranial pressure (ICE) of a patient. At least one waveform [22] representative of a pulsation of an anatomical feature of the patient's head is obtained, preferably by integrating ultrasound reflection traces in a time gate corresponding to reflections from the feature. The preferred anatomical feature is the third cerebral ventricle. A quantitative measure of ICE is inferred from two or more diagnostic features, such as diagnostic times, associated with the waveform [22]. Alternatively, a qualitative measure of ICE is obtained from the shape of the respiratory wave imposed on the train of waveforms by the patient's breathing.

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