

Title (en)
PROCESS AND DEVICE FOR NON-INVASIVE DETERMINATION OF GLUCOSE CONCENTRATION IN PARTS OF THE HUMAN BODY

Title (de)
VERFAHREN UND VORRICHTUNG ZUR NONINVASIVEN BESTIMMUNG DER GLUCOSEKONZENTRATION IN TEILEN DES MENSCHLICHEN KÖRPERS

Title (fr)
PROCEDE ET DISPOSITIF DE DETERMINATION NON INVASIVE DE LA CONCENTRATION DE GLUCOSE DANS DES PARTIES DU CORPS HUMAIN

Publication
EP 0734222 A1 19961002 (DE)

Application
EP 95903231 A 19941212

Priority

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- DE 4342105 A 19931212

Abstract (en)
[origin: WO9515711A1] A device is suitable both for determining with high accuracy and precision the temperature of the human body (surface temperature, temperature in layers next to the surface, temperature in bodily cavities, temperature gradient towards the inside of the body) and for detecting the heat of the human body. The device has at least one sensor head and the associated electronic control, measurement, evaluation and output units. Their measurement accuracy and precision is higher than that of conventional temperature and heat measurement devices. The device further allows temperature measurement and heat detection with a high spatial and temporal resolution. In addition, because of the high correlation discovered between the glucose concentration in human blood and body temperature and heat measured at certain points of the body, the device is extraordinarily suitable for non-invasively and even contactlessly determining the glucose concentration in parts of the human body, in particular the human blood.

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IPC 8 full level
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CPC (source: EP KR US)
A61B 5/015 (2013.01 - EP KR US); **A61B 5/14532** (2013.01 - EP KR US)

Citation (search report)
See references of WO 9515711A1

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