

Title (en)

PROCESS AND DEVICE FOR SENSING HEAT TRANSFER BETWEEN A LIVING BODY AND A SENSOR

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERFASSUNG VON WÄRMEÜBERTRAGUNG ZWISCHEN EINEM LEBENDEN KÖRPER UND EINEM SENSOR

Title (fr)

PROCEDE ET DISPOSITIF DE DETECTION DU TRANSFERT DE CHALEUR ENTRE UN CORPS VIVANT ET UN CAPTEUR

Publication

EP 0771168 A1 19970507 (DE)

Application

EP 95924835 A 19950706

Priority

- DE 9500864 W 19950706
- DE 4423663 A 19940706

Abstract (en)

[origin: DE4423663A1] A process and device are disclosed for sensing the thermal interaction between the human body and the disclosed device. The thus obtained physical measurement data are electronically converted and may be associated in an appropriate manner to concentrations of certain components of human blood determined in an unambiguous manner, such as cholesterol, triglycerides, etc., in particular glucose. The device has at least one heat measurement unit and electronic control, regulation, evaluation and output units. The device also allows temperature measurements with high spatial and temporal resolutions. The process is non-invasive and is particularly suitable for determining without contact the glucose concentration in parts of the human body, in particular human blood.

IPC 1-7

A61B 5/00; G01K 13/00

IPC 8 full level

A61B 5/01 (2006.01); **A61B 5/00** (2006.01); **A61B 5/145** (2006.01); **G01K 13/00** (2006.01)

CPC (source: EP US)

A61B 5/01 (2013.01 - EP US); **A61B 5/14532** (2013.01 - EP US); **G01K 13/20** (2021.01 - EP US)

Citation (search report)

See references of WO 9601075A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

DE 4423663 A1 19960111; CA 2194348 A1 19960118; CN 1159151 A 19970910; EP 0771168 A1 19970507; JP H10503944 A 19980414; KR 100271095 B1 20001201; TW 298563 B 19970221; US 5924996 A 19990720; WO 9601075 A1 19960118

DOCDB simple family (application)

DE 4423663 A 19940706; CA 2194348 A 19950706; CN 95193923 A 19950706; DE 9500864 W 19950706; EP 95924835 A 19950706; JP 50362596 A 19950706; KR 19970700121 A 19970106; TW 84110517 A 19951006; US 76525297 A 19970429