

Title (en)

SYSTEM FOR AUTOMATED MEASUREMENT OF SKIN PERFUSION PRESSURE

Title (de)

SYSTEM FÜR DIE AUTOMATISCHE MESSUNG DES HAUTPERFUSIONSDRUCKS

Title (fr)

SYSTEME DE MESURE AUTOMATIQUE DE LA PRESSION D'UNE PERFUSION CUTANEE

Publication

**EP 1933697 A4 20110525 (EN)**

Application

**EP 06790131 A 20060830**

Priority

- US 2006034116 W 20060830
- US 2005031505 W 20050906

Abstract (en)

[origin: WO2007030379A2] An automatic skin perfusion measuring system including instrumentation that automatically analyzes perfusion measurements to identify motion artifact and SPP values and a sensor placement device is provided. The instrumentation is configured to ignore motion artifact. Perfusion measurements are designated as SPP values if various criteria are met. SPP value criteria pertain to factors including cuff pressure, perfusion, perfusion change percentages relative to previous and subsequent perfusion measurements, and whether perfusion measurements are increasing or decreasing relative to previous and subsequent perfusion measurements. The sensor placement device assures reliable data is produced when multiple measurements are desired.

IPC 8 full level

**A61B 5/022** (2006.01); **A61B 5/026** (2006.01); **A61B 5/103** (2006.01)

CPC (source: EP)

**A61B 5/0261** (2013.01); **A61B 5/6833** (2013.01); **A61B 5/6842** (2013.01); **A61B 5/6843** (2013.01); **A61B 5/7207** (2013.01); **A61B 5/14552** (2013.01)

Citation (search report)

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- [XI] WO 2005030038 A2 20050407 - OPTICAL SENSORS INC [US], et al
- [Y] US 4718428 A 19880112 - RUSSELL TED W [US]
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- [XA] US 5050613 A 19910924 - NEWMAN DENNIS [US], et al
- [X] FISCHER ET AL: "Simultaneous measurement of digital artery and skin perfusion pressure by the laser doppler technique in healthy controls and patients with peripheral arterial occlusive disease", EUROPEAN JOURNAL OF VASCULAR AND ENDOVASCULAR SURGERY, vol. 10, no. 2, 1 August 1995 (1995-08-01), SAUNDERS, LONDON, GB, pages 231 - 236, XP005052833, ISSN: 1078-5884, DOI: 10.1016/S1078-5884(05)80118-2
- [X] LUKKARI-RAUTIARINEN E ET AL: "Reproducibility of skin blood flow, perfusion pressure and oxygen tension measurements in advanced lower limb ischaemia.", EUROPEAN JOURNAL OF VASCULAR SURGERY, vol. 3, no. 4, August 1989 (1989-08-01), pages 345 - 350, XP002630213, ISSN: 0950-821X
- See references of WO 2007030379A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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