

Title (en)  
SYSTEMS AND METHODS FOR INVESTIGATING INTRACRANIAL PRESSURE

Title (de)  
SYSTEME UND VERFAHREN ZUR UNTERSUCHUNG DES SCHÄDELINNENDRUCKS

Title (fr)  
SYSTEMES ET PROCEDES D'EXAMEN DE LA PRESSION INTRACRANIENNE

Publication  
**EP 1513451 A1 20050316 (EN)**

Application  
**EP 03726926 A 20030521**

Priority  
• US 0315820 W 20030521  
• US 38178902 P 20020521  
• US 38481902 P 20020604

Abstract (en)  
[origin: WO03099131A1] Systems and methods for assessing blood flow in single or multiple vessels or segments, for assessing vascular health, for conducting clinical trials, for screening therapeutic interventions for effect, for assessing risk factors, for evaluating intracranial pressure, and for analyzing the results in a defined manner. The invention enables direct monitoring of therapies, substances and devices on blood vessels, especially those of the cerebral vasculature. Relevant blood flow parameters include mean flow velocity, systolic acceleration, and pulsatility index. Measurement and analysis of these parameters, and others, provides details regarding the vascular health of individual and multiple vessels and a global analysis of an individual's overall vascular health. The invention can track the onset, progression, and treatment efficacy in an individual experiencing increased intracranial pressure, or can help identify underlying vulnerabilities of the vascular system to normal pressures, associated with and manifested as hydrocephalus or dementia.

IPC 1-7  
**A61B 8/02**; A61B 8/06; A61B 8/12; A61B 5/02; A61B 5/00; A61B 8/00; A61B 8/14

IPC 8 full level  
**A61B 8/06** (2006.01); **A61B 5/00** (2006.01); **A61B 5/03** (2006.01)

CPC (source: EP)  
**A61B 5/02007** (2013.01); **A61B 5/411** (2013.01); **A61B 5/7275** (2013.01); **A61B 8/06** (2013.01); **A61B 8/0808** (2013.01); **A61B 8/56** (2013.01); **G16H 50/20** (2017.12); **A61B 5/0002** (2013.01); **A61B 5/031** (2013.01); **A61B 5/4088** (2013.01); **G16H 50/70** (2017.12)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 03099131 A1 20031204**; AU 2003229334 A1 20031212; CA 2491044 A1 20031204; EP 1513451 A1 20050316; EP 1513451 A4 20090826

DOCDB simple family (application)  
**US 0315820 W 20030521**; AU 2003229334 A 20030521; CA 2491044 A 20030521; EP 03726926 A 20030521