

Title (en)  
CERERBAL CIRCULATION MODEL AND APPLICATIONS

Title (de)  
MODELL DES ZEREBRALEN BLUTKREISLAUFS UND ANWENDUNGEN

Title (fr)  
MODELE DE CIRCULATION CEREBRALE ET APPLICATIONS CORRESPONDANTES

Publication  
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Application  
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Priority  
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Abstract (en)  
[origin: WO9938433A1] A method and apparatus are provided for modeling cerebral circulation in a living subject. The method includes the steps (200) of developing a model for living subjects in general, and correcting the model to substantially conform to the overall cerebral physiology of the living subject. The method further includes the step of calculating a cerebral flow of the living subject based upon the corrected model and a selected cerebral blood flow perturbation.

IPC 1-7  
**A61B 5/00**; G06F 19/00

IPC 8 full level  
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Citation (search report)  
• [X] US 5151856 A 19920929 - HALMANN MENACHEM [IL], et al  
• [X] KARPLUS W J ET AL: "SIMULATION AND VISUALIZATION OF THE FLUID FLOW FIELD IN ANEURYSMS: A VIRTUAL ENVIRONMENTS METHODOLOGY", PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON MICRO MACHINE AND HUMAN SCIENCE, XX, XX, January 1996 (1996-01-01), pages 35 - 42, XP002934668  
• [DY] CLARK M E; KUF AHL R H; ZIMMERMAN F J: "NATURAL AND SURGICALLY IMPOSED ANASTOMOSES OF THE CIRCLE OF WILLIS", NEUROLOGICAL RESEARCH, vol. 11, no. 4, 1989, pages 217 - 230, XP009006414  
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• See references of WO 9938433A1

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