

Title (en)
METHOD FOR PREDICTING ATHEROSCLEROTIC RISK.

Title (de)
VERFAHREN ZUM VORAUSSAGEN VON ATHEROSKLEROTISCHEN RISIKEN.

Title (fr)
PROCEDE DE PREDICTION DE RISQUE ATHEROSCLEREUX.

Publication
EP 0509049 A4 19920827 (EN)

Application
EP 91902894 A 19901221

Priority
• US 45406989 A 19891221
• US 63052090 A 19901220

Abstract (en)
[origin: WO9110128A1] A method is disclosed for predicting atherosclerotic risk in a living patient using nuclear magnetic resonance. Specifically, NMR parameters for protons of high density lipoproteins are determined and compared against a corresponding value for healthy patients. Suppression of the water proton signal is employed where necessary to obtain a suitable spectrum for the non-water component protons. Individuals with high atherosclerotic risk are identified based on the mean normalized high density lipoprotein resonance amplitude of a proton nuclear magnetic resonance spectrum of a chosen body fluid, most typically one's whole blood.

IPC 1-7
A61B 5/055; **G01N 24/08**; **G01N 33/92**; **G01R 33/46**

IPC 8 full level
G01N 33/483 (2006.01); **A61B 5/055** (2006.01); **A61B 17/22** (2006.01); **G01N 24/08** (2006.01); **G01N 33/50** (2006.01); **G01N 33/92** (2006.01); **G01R 33/46** (2006.01); **G01R 33/465** (2006.01); **A61B 19/00** (2006.01)

IPC 8 main group level
G01N (2006.01)

CPC (source: EP)
G01R 33/465 (2013.01); **G16H 50/30** (2017.12)

Citation (search report)
• [A] EP 0234524 A2 19870902 - BETH ISRAEL HOSPITAL [US]
• [AP] EP 0361214 A1 19900404 - OTVOS JAMES D
• [A] JOURNAL OF MAGNETIC RESONANCE. vol. 59, no. 2, 1 September 1984, ORLANDO, MN US pages 268 - 274; S. COFFIN ET AL.: 'CORRELATION OF 13C AND 1H CHEMICAL SHIFTS IN BOVINE HIGH-DENSITY LIPOPROTEIN FROM TWO-DIMENSIONAL NMR'
• [A] JOURNAL OF LIQUID CHROMATOGRAPHY vol. 11, no. 3, 1 March 1988, NEW YORK, (US) pages 647 - 664; G.N. CHMURNY ET AL.: 'A COMPARISON OF HIGH PERFORMANCE GEL PERMEATION CHROMATOGRAPHY AND NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY IN THE ANALYSIS OF PLASMA FROM NORMAL SUBJECTS AND CANCER PATIENTS'
• [AD] FEBS LETTERS. vol. 219, no. 1, 13 July 1987, AMSTERDAM NL pages 239 - 243; J.D. BELL ET AL.: '1H NMR STUDIES OF HUMAN BLOOD PLASMA'
• See references of WO 9110128A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

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WO 9110128 A1 19910711; AU 7142991 A 19910724; BR 9007936 A 19921027; CA 2071638 A1 19910622; EP 0509049 A1 19921021; EP 0509049 A4 19920827; FI 922887 A0 19920618; FI 922887 A 19920618; JP H06505089 A 19940609

DOCDB simple family (application)
US 9007622 W 19901221; AU 7142991 A 19901221; BR 9007936 A 19901221; CA 2071638 A 19901221; EP 91902894 A 19901221; FI 922887 A 19920618; JP 50330891 A 19901221