

Title (en)
CARRIER SYSTEM AND METHOD FOR ENHANCEMENT OF MAGNETIC RESONANCE IMAGING

Publication
EP 0433312 A4 19911204 (EN)

Application
EP 89909661 A 19890817

Priority
US 23546488 A 19880824

Abstract (en)
[origin: WO9001900A1] Enhanced magnetic resonance imaging contrast is provided by targeting paramagnetic material specifically to selected mammalian cell types. A carrier system for the paramagnetic material utilizes receptor mediated endocytosis to endow cell specificity and is formed by complexing the paramagnetic material to a glycoprotein-chelator conjugate. The conjugate is formed by bonding receptor-specific ligands to chelating agents through covalent bonding. The carrier not only exhibits a high degree of cell spcificity but also provides significant accumulation of the paramagnetic material within the cell to contribute to the improved enhancement of the magnetic resonance contrast.

IPC 1-7
A61B 5/05; **A61K 49/00**; **G01N 31/00**; **G01N 33/48**

IPC 8 full level
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Citation (search report)
• [Y] EP 0273452 A2 19880706 - NIHON MEDIPHYSICS CO LTD [JP]
• [Y] EP 0268707 A2 19880601 - GEN HOSPITAL CORP [US], et al
• [XP] HEPATOLOGY, vol. 8, no. 5, September-October 1988, page 1253, abstract no. 140, Baltimore, US; G. WU et al.: "A hepatocyte-directed contrast agent for magnetic resonance imaging of hepatic tumors"
• See references of WO 9001900A1

Designated contracting state (EPC)
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