

Title (en)  
MEDICINAL, RADIOACTIVE RUTHENIUM RADIATION SOURCES WITH HIGH DOSAGE RATE AND METHOD FOR PRODUCING THE SAME

Title (de)  
MEDIZINISCHE RADIOAKTIVE RUTHENIUM-STRAHLENQUELLEN HOHER DOSISLEISTUNG UND VERFAHREN ZUR HERSTELLUNG  
DIESER

Title (fr)  
SOURCES IRRADIANTES RADIOACTIVES AU RUTHENIUM A DEBIT DE DOSE ELEVE, A USAGE MEDICAL ET LEUR PROCEDE  
D'OBTENTION

Publication  
**EP 0986818 A1 20000322 (DE)**

Application  
**EP 99916898 A 19990330**

Priority  
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• EP 9902159 W 19990330

Abstract (en)  
[origin: DE19815568A1] The invention relates to radioactive ruthenium radiation sources with a dosage rate of at least 1.5 Gy/min at a distance (water) of 2 mm, consisting of an activity carrier and an encapsulation of the carrier made of a material compatible with the human body. A multilayer system made of metals and/or or alloys is galvanically applied on the carrier. At least two layers in said system are made of ruthenium 106 and inactive intermediate layers made of other metals or alloys are provided between the radioactive ruthenium layers. The activity carrier is encapsulated with a material compatible with the human body, for instance a metal or a plastic material. Encapsulation can be carried out by filling a capsule and subsequently sealing or galvanically depositing a top layer made, for instance, of hard gold.

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**G21G 4/06**

IPC 8 full level  
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