

Title (en)

Carrier for radionuclides, method for fabricating the same and miniaturized radioactive source

Title (de)

Trägermaterial für Radionuklide, Verfahren zur Herstellung desselben und miniaturisierte radioaktive Strahlungsquelle

Title (fr)

Support pour radionuclides, procédé de fabrication et source radioactive miniaturisée

Publication

EP 0936631 A3 20001122 (DE)

Application

EP 98250451 A 19981228

Priority

DE 19807604 A 19980217

Abstract (en)

[origin: DE19807604C1] A porous carrier for radioactive substances is made by mixing titanium dioxide, zirconium dioxide, aluminium oxide or silicon dioxide with a polysaccharide and water, followed by kneading, drying and tempering at 800-1300 deg C. Preparation of a carrier for radioactive substances comprises dry mixing of a solid carrier with a polysaccharide in a ratio of 6:4 - 9:1, followed by addition of enough water to allow kneading of the mixture. Once it has been homogenized, the mixture is dried and tempered at 800-1300 deg C to give a porous structure. An Independent claim is also included for a miniaturized radioactive source with an activity of 12-15 (preferably 20) mCi/mm<3>, which is made by soaking the carrier of the invention in a radionuclide solution, followed by tempering for a short period at 800 deg C and then at 1000-1300 deg C.

IPC 1-7

G21G 4/06; G21G 4/08

IPC 8 full level

A61M 36/04 (2006.01); **G21G 4/08** (2006.01)

CPC (source: EP)

G21G 4/08 (2013.01)

Citation (search report)

- [A] US 5415775 A 19950516 - CASTILLON ROGER [FR], et al
- [A] US 5015615 A 19910514 - DELLER KLAUS [DE], et al
- [A] DATABASE WPI Section Ch Week 199151, Derwent World Patents Index; Class A97, AN 1991-373936, XP002136707
- [A] DATABASE WPI Section Ch Week 197415, Derwent World Patents Index; Class E33, AN 1974-27812V, XP002136708

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

DE 19807604 C1 19990729; EP 0936631 A2 19990818; EP 0936631 A3 20001122

DOCDB simple family (application)

DE 19807604 A 19980217; EP 98250451 A 19981228