

Title (en)
PROCESS FOR PRODUCING RADIOACTIVE MOLYBDENUM

Title (de)
PROZESS ZUM HERSTELLEN VON RADIOAKTIVEM MOLYBDÄN

Title (fr)
PROCÉDÉ DE PRODUCTION DE MOLYBDÈNE RADIOACTIF

Publication
EP 2104113 A1 20090923 (EN)

Application
EP 07830597 A 20071019

Priority
• JP 2007070863 W 20071019
• JP 2006286159 A 20061020

Abstract (en)
An efficient manufacturing method of not using the uranium as a raw material is provided as a method of manufacturing radioactive molybdenum 99 Mo which is parent nuclide of radioactive technetium (99m Tc) which is a radioactive diagnosis medicine. 99 Mo is manufactured efficiently by irradiating neutrons to the Mo solution in which Mo compound is dissolved in water in an irradiation capsule set up in the core of a nuclear reactor, generating 99 Mo by 98 Mo(n, ³) reaction, and by collecting the Mo solution in continuous or batch processing.

IPC 8 full level
G21G 1/02 (2006.01); **G21G 4/08** (2006.01)

CPC (source: EP)
G21G 1/02 (2013.01); **G21G 2001/0036** (2013.01)

Cited by
US9576692B2; RU2666552C1; US2012314828A1; US2022199277A1; US2021304914A1; US11894157B2; US2012027152A1; US9396826B2; US11830637B2; US9287015B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2104113 A1 20090923; EP 2104113 A4 20100915; EP 2104113 B1 20120111; AT E541297 T1 20120115; CA 2666570 A1 20080424; CA 2666570 C 20111115; JP 2008102078 A 20080501; JP 4618732 B2 20110126; WO 2008047946 A1 20080424

DOCDB simple family (application)
EP 07830597 A 20071019; AT 07830597 T 20071019; CA 2666570 A 20071019; JP 2006286159 A 20061020; JP 2007070863 W 20071019