

Title (en)  
DEVICE FOR PRODUCING RADIOISOTOPES

Title (de)  
VORRICHTUNG ZUR HERSTELLUNG VON RADIOISOTOPEN

Title (fr)  
DISPOSITIF DESTINÉ À LA PRODUCTION DE RADIOISOTOPES

Publication  
**EP 2633527 B1 20170614 (FR)**

Application  
**EP 11778846 A 20111027**

Priority  
• BE 201000640 A 20101027  
• EP 2011068876 W 20111027

Abstract (en)  
[origin: WO2012055970A1] The invention relates to a device (1) for producing radioisotopes by irradiating a target fluid using a particle beam (13). This device comprises an irradiation cell (7) that includes a cavity (3) for receiving the target fluid. A non-cryogenic cooling device cools the walls of the cavity (3). The cavity (3) has an inclined surface (15) downwardly delimiting the cavity (3) so as to evacuate the target fluid, which condenses on contact with the cooled walls, under gravity towards a metal foil (4) which closes off this cavity (3). The inclined surface (15) intersects the plane formed by the metal foil (4), making an acute angle (a) with said plane, so as to form with the metal foil (4) a wedge-shaped zone (18) capable of collecting, by gravity, the condensed target fluid.

IPC 8 full level  
**G21G 1/10** (2006.01); **H05H 6/00** (2006.01)

CPC (source: EP US)  
**G21G 1/10** (2013.01 - EP US); **G21G 4/04** (2013.01 - US); **H05H 6/00** (2013.01 - EP US); **G21G 2001/0015** (2013.01 - EP US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2012055970 A1 20120503**; BE 1019556 A3 20120807; EP 2633527 A1 20130904; EP 2633527 B1 20170614; US 2013266105 A1 20131010; US 9922743 B2 20180320

DOCDB simple family (application)  
**EP 2011068876 W 20111027**; BE 201000640 A 20101027; EP 11778846 A 20111027; US 201113881305 A 20111027