

Title (en)

PARTICLE BEAM TARGET WITH IMPROVED HEAT TRANSFER AND RELATED METHOD

Title (de)

TEILCHENSTRAHL-TARGET MIT VERBESSERTER WÄRMEÜBERTRAGUNG UND DIESBEZÜGLICHE VERFAHREN

Title (fr)

CIBLE DE FAISCEAU DE PARTICULES AVEC TRANSFERT DE CHALEUR AMÉLIORÉ ET PROCÉDÉ ASSOCIÉ

Publication

EP 2425686 B1 20190313 (EN)

Application

EP 09844184 A 20090501

Priority

US 2009042508 W 20090501

Abstract (en)

[origin: WO2010126529A1] A particle beam target for producing radionuclides includes a target body, a target cavity, parallel grooves, peripheral bores, and radial outflow bores. The parallel grooves are formed in a back side of the target body and include respective first and second groove ends. The peripheral bores extend through the target body from the plurality of grooves generally toward the front side that receives a particle beam. Each groove communicates with a peripheral bore at the first groove end and another peripheral bore at the second groove end. The radial outflow bores extend radially from the plurality of peripheral bores. The target body defines a plurality of liquid coolant flow paths. Each liquid coolant flow path runs from a respective groove to at least one of the first groove end and the second groove end of the respective groove, through at least one peripheral bore, and through at least one radial outflow bore.

IPC 8 full level

H05H 6/00 (2006.01); **H05H 3/00** (2006.01); **H05H 3/06** (2006.01)

CPC (source: EP)

H05H 6/00 (2013.01)

Cited by

US11315700B2

Designated contracting state (EPC)

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 SE SI SK TR

DOCDB simple family (publication)

WO 2010126529 A1 20101104; CA 2760111 A1 20101104; DK 2425686 T3 20190423; EP 2425686 A1 20120307; EP 2425686 A4 20160518; EP 2425686 B1 20190313; ES 2726762 T3 20191009

DOCDB simple family (application)

US 2009042508 W 20090501; CA 2760111 A 20090501; DK 09844184 T 20090501; EP 09844184 A 20090501; ES 09844184 T 20090501