

Title (en)

MOVABLE/REPLACEABLE HIGH INTENSITY TARGET AND MULTIPLE ACCELERATOR SYSTEMS AND METHODS

Title (de)

BEWEGLICHES/ERSETZBARES HOCHINTENSIVES TARGET SOWIE MEHRERE BESCHLEUNIGERSYSTEME UND -VERFAHREN

Title (fr)

CIBLE D'INTENSITÉ ÉLEVÉE MOBILE/REMPLAÇABLE ET SYSTÈMES ET PROCÉDÉS D'ACCÉLÉRATEUR MULTIPLES

Publication

**EP 4388572 A1 20240626 (EN)**

Application

**EP 22773348 A 20220812**

Priority

- US 202117404885 A 20210817
- US 202117404843 A 20210817
- US 2022040254 W 20220812

Abstract (en)

[origin: WO2023022949A1] Presented systems and methods facilitate efficient and effective generation and delivery of radiation. In one embodiment, an accelerator system 200B includes a particle source 211, an acceleration portion 215, a high intensity target 217, and a target location control component 250. The particle source is configured to generate charged particles. The acceleration portion is configured to accelerate the charged particles. The high intensity target is configured to generate Bremsstrahlung radiation in response to impact by the charged particles. The target location control component configured to change the location of charged particle impacts on the high intensity target. In one exemplary implementation the change of location of charged particle impact is based on thermal diffusion and said location of charged particle impacts is moved at a rate greater than a rate of diffusion of detrimental heat impacts on the high intensity target.

IPC 8 full level

**H01J 35/08** (2006.01); **A61B 6/03** (2006.01); **G21K 5/04** (2006.01); **H01J 35/24** (2006.01)

CPC (source: EP)

**A61N 5/1077** (2013.01); **G21K 5/04** (2013.01); **H01J 35/08** (2013.01); **H01J 35/24** (2013.01); **A61B 6/032** (2013.01); **A61B 6/4085** (2013.01); **A61B 6/4476** (2013.01); **A61N 2005/1061** (2013.01)

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

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**WO 2023022949 A1 20230223**; EP 4388560 A1 20240626; EP 4388572 A1 20240626; WO 2023022952 A1 20230223

DOCDB simple family (application)

**US 2022040248 W 20220812**; EP 22765657 A 20220812; EP 22773348 A 20220812; US 2022040254 W 20220812