

Title (en)

LAMINATED LEAD-FREE X-RAY PROTECTION MATERIAL

Title (de)

GESCHICHTETES BLEIFREI-RÖNTGENSCHUTZMATERIAL

Title (fr)

MATÉRIAU DE PROTECTION CONTRE LES RAYONS X SANS PLOMB REVÊTU

Publication

EP 2033198 A1 20090311 (DE)

Application

EP 07764839 A 20070625

Priority

- EP 2007005610 W 20070625
- DE 102006028958 A 20060623

Abstract (en)

[origin: WO2007147642A1] The invention relates to a laminated lead-free x-ray protection material (10, 12, 14) comprising at least two individual composite layers (2), each individual composite layer (2) comprising a secondary radiation layer (4) with a low Z material and a barrier layer (4) with a high Z material. The individual composite layers (2) are arranged in the radiation protection material (10, 12, 14) in such a way that a barrier layer (8) is arranged on both surfaces (18, 20) of the radiation protection material (10, 12, 14), and the respective secondary radiation layer (8) is arranged at a distance from the surface (18, 20).

IPC 8 full level

G21F 1/12 (2006.01)

CPC (source: EP US)

G21F 1/12 (2013.01 - EP US)

Citation (search report)

See references of WO 2007147642A1

Cited by

WO2021137709A1

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

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

DE 102006028958 A1 20071227; DE 102006028958 B4 20081204; CN 101479809 A 20090708; CN 101479809 B 20120418; EP 2033198 A1 20090311; EP 2033198 B1 20140305; JP 2009541720 A 20091126; JP 5461177 B2 20140402; US 2009272921 A1 20091105; US 7897949 B2 20110301; WO 2007147642 A1 20071227

DOCDB simple family (application)

DE 102006028958 A 20060623; CN 200780023550 A 20070625; EP 07764839 A 20070625; EP 2007005610 W 20070625; JP 2009515783 A 20070625; US 30611607 A 20070625