

Title (en)

System for automatically producing radioisotopes

Title (de)

System zur automatischen Gewinnung von Radioisotopen

Title (fr)

Système permettant la production automatique de radioisotopes

Publication

EP 1717819 A1 20061102 (EN)

Application

EP 05425262 A 20050427

Priority

EP 05425262 A 20050427

Abstract (en)

A system (1) for automatically producing radioisotopes, and including a target carrier (8); an electrodeposition unit (2) for electrodepositing a target in the target carrier; an irradiation unit (3) for irradiating the target in the target carrier (8); first transfer means (5, 18) for transferring the target carrier from the electrodeposition unit (2) to the irradiation unit (3); an electrodissoolution unit (2) for electrodissoolving the irradiated target; second transfer means (5, 18) for transferring the target carrier from the irradiation unit (3) to the electrodissoolution unit (2); a purifying unit (4) for purifying the radioisotope of the non-reacting target and impurities; third transfer means (6, 22) for transferring the electrodissoolved irradiated target from the electrodissoolution unit (2) to the purifying unit (4); and a central control unit (7) for controlling the operating units and transfer means to automate the entire process.

IPC 8 full level

G21G 1/04 (2006.01)

CPC (source: EP US)

C25C 1/22 (2013.01 - EP US); **C25C 7/007** (2013.01 - EP US); **G21G 4/08** (2013.01 - EP US); **H05H 6/00** (2013.01 - EP US)

Citation (search report)

- [A] US 5037602 A 19910806 - DABIRI ALI E [US], et al
- [A] GB 1369700 A 19741009 - UNION CARBIDE CORP
- [DA] WO 9707122 A2 19970227 - UNIV WASHINGTON [US], et al
- [A] WO 9962073 A1 19991202 - BATTELLE MEMORIAL INSTITUTE [US]
- [A] WO 0033322 A1 20000608 - CEDARS SINAI MEDICAL CENTER [US]
- [A] EP 0486283 A2 19920520 - UEMURA KAZUO [JP], et al

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EP2211353A3; EP2620949A4; EP3608921A1; US11250964B2

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 MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

EP 1717819 A1 20061102; EP 1717819 B1 20110720; AT E517418 T1 20110815; CA 2606643 A1 20061102; CA 2606643 C 20130903; DK 1717819 T3 20111107; ES 2369482 T3 20111201; US 2010025251 A1 20100204; WO 2006114433 A2 20061102; WO 2006114433 A3 20070222

DOCDB simple family (application)

EP 05425262 A 20050427; AT 05425262 T 20050427; CA 2606643 A 20060426; DK 05425262 T 20050427; EP 2006061853 W 20060426; ES 05425262 T 20050427; US 91950906 A 20060424