

Title (en)  
Process of producing the radioisotope TL-201

Title (de)  
Verfahren zur Erzeugung des Isotopes TI-201

Title (fr)  
Procédé de production de l'isotope TI-201

Publication  
**EP 1892728 A1 20080227 (EN)**

Application  
**EP 06119491 A 20060824**

Priority  
EP 06119491 A 20060824

Abstract (en)  
The radioisotope Tl-201 is produced. The process includes electroplating, irradiating, dissolving, precipitating, ion exchanging, decaying and filtering. The Tl-201 obtained is a liquid having a high purity.

IPC 8 full level  
**G21G 1/00** (2006.01)

CPC (source: EP)  
**G21G 1/001** (2013.01); **G21G 4/08** (2013.01); **G21G 2001/0078** (2013.01)

Citation (applicant)  

- US 3993538 A 19761123 - LEBOWITZ ELLIOT, et al
- US 4297166 A 19811027 - KATO MAKOTO, et al
- QAIM S. M.; WEINREICH R.; OLLIG H.: "Production of Tl-201 and Pb203 via Proton Induced Nuclear Reaction on Natural Thallium", INTERNATIONAL JOURNAL OF APPLIED RADIATION AND ISOTOPES, vol. 30, 1979, pages 85 - 95

Citation (search report)  

- [YA] US 3993538 A 19761123 - LEBOWITZ ELLIOT, et al
- [A] US 4297166 A 19811027 - KATO MAKOTO, et al
- [YA] LAMBRECHT R M ET AL: "TARGET PREPARATION AND RECOVERY OF ENRICHED ISOTOPES FOR MEDICAL RADIONUCLIDE PRODUCTION", NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH, SECTION - A: ACCELERATORS, SPECTROMETERS, DETECTORS AND ASSOCIATED EQUIPMENT, ELSEVIER, AMSTERDAM, NL, vol. A282, no. 1, 1 October 1989 (1989-10-01), pages 296 - 300, XP000067682, ISSN: 0168-9002
- [DA] QAIM S M ET AL: "Production of <201>Tl and <203>Pb via proton induced nuclear reactions on natural thallium", INTERNATIONAL JOURNAL OF APPLIED RADIATION AND ISOTOPES UK, vol. 30, no. 2, February 1979 (1979-02-01), pages 85 - 95, XP002415296, ISSN: 0020-708X

Cited by  
EP1916669B1

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 NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1892728 A1 20080227; EP 1892728 B1 20131204; EP 1892728 B9 20140409**

DOCDB simple family (application)  
**EP 06119491 A 20060824**