

Title (en)  
Large grain cavities from pure niobium ingot

Title (de)  
Große Kornräume aus reinen Niobiumbarren

Title (fr)  
Grandes cavités de grain de lingot pur de niobium

Publication  
**EP 1865087 A1 20071212 (EN)**

Application  
**EP 06252987 A 20060609**

Priority  
EP 06252987 A 20060609

Abstract (en)  
Niobium cavities are fabricated by the deep drawing of as cast niobium ingot slices or tubing; rather than from cold rolled niobium sheet. This method results in the production of niobium cavities having a minimum of grain boundaries at a significantly reduced cost as compared to the production of such structures from cold rolled sheet.

IPC 8 full level  
**C22F 1/00** (2006.01)

CPC (source: EP)  
**C22F 1/00** (2013.01)

Citation (search report)

- [A] JP H03247745 A 19911105 - NIPPON STEEL CORP
- [X] PROCH D ET AL: "NIOBIUM IN SUPERCONDUCTING RF CAVITIES", NIOBIUM SCIENCE AND TECHNOLOGY. PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM NIOBIUM, NIOBIUM,, US, 2001, pages 187 - 206, XP008065388
- [A] M.FOUAIDY, S.BOUSSON, J.LESREL, V.PALMIERI: "TEST RESULTS OF SRF3 GHZ bULK NIOBIUM SPUN CAVITIES", 7 June 2002, EUROPEAN PARTICLE ACCELERATOR CONFERENCE. EPAC, XX, XX, PARIS, XP008072056
- [A] DIETER PROCH: "NEW WAYS OF CAVITY FABRICATION", 22 January 1996, PARTICLE ACCELERATORS, GORDON & BREACH, NEW YORK, NY, US, AMSTERDAM, ISSN: 0031-2460, XP008071955
- [A] P.KNEISEL, V. PALMIERI: "Development of Seamless Niobium Cavities for accelerator applications", PROCEEDINGS OF THE 1999 PARTICLE ACCELERATOR COFERENCE, vol. 2, 27 March 1999 (1999-03-27), pages 943 - 945, XP002409339

Designated contracting state (EPC)  
CH DE FR GB IT LI

Designated extension state (EPC)  
AL BA HR MK YU

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