

Title (en)  
NON-VAPORISING GETTER AND METHOD OF OBTAINING THE SAME

Title (de)  
NICHTVERDAMPFBARES GETTERMATERIAL UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)  
DEGAZEUR NON VOLATILE ET SON PROCEDE D'OBTENTION

Publication  
**EP 0765012 B1 19990707 (EN)**

Application  
**EP 95942805 A 19951221**

Priority  

- RU 9500276 W 19951221
- RU 94045576 A 19941229
- US 86823297 A 19970603

Abstract (en)  
[origin: WO9621958A2] The proposed non-vaporising getter contains the following components: vanadium (V) - 20-35 wt.%; calcium (Ca) - 0.1-0.5 wt.%; and titanium (Ti) - the rest. The getter has a porosity of 25-65 % of its total volume. In order to obtain the getter in question, a method is proposed whereby a metal powder containing vanadium (V), calcium (Ca) and titanium (Ti) in the proportions indicated above is fed into a deformation zone at a bulk density of about 0.7-1.5 g/cm<sup>3</sup>. In the deformation zone, the powder is shaped by rolling, producing a getter blank in the form of a ribbon. The latter is cut into uniform sections which are then fed into a heating zone, where a pressure below 1 pa is established and maintained and the blank sections are heated to a temperature below 0.6 of the fusion temperature of the titanium-vanadium alloy and subsequently allowed to set. A getter is obtained with a porosity of 25-65 % of its total volume.

IPC 1-7  
**H01J 7/18**

IPC 8 full level  
**B22F 5/00** (2006.01); **B22F 3/11** (2006.01); **C22C 1/04** (2006.01); **C22C 14/00** (2006.01); **H01J 7/18** (2006.01); **H01S 3/09** (2006.01)

CPC (source: EP)  
**H01J 7/183** (2013.01)

Cited by  
US6299746B1; US6508632B1

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB IE IT LI NL SE

DOCDB simple family (publication)  
**WO 9621958 A2 19960718; WO 9621958 A3 19960906**; CN 1068907 C 20010725; CN 1142250 A 19970205; EP 0765012 A2 19970326; EP 0765012 A4 19970220; EP 0765012 B1 19990707; JP 3231780 B2 20011126; JP H09509986 A 19971007; RU 2073737 C1 19970220; RU 94045576 A 19961027

DOCDB simple family (application)  
**RU 9500276 W 19951221**; CN 95191862 A 19951221; EP 95942805 A 19951221; JP 52158696 A 19951221; RU 94045576 A 19941229