

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.

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**H01J 7/18**

IPC 8 full level  
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Cited by  
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