Title (en)

A combination of materials for integrated getter and mercury-dispensing devices and devices thus obtained

Title (de)

Materialienzusammansetzung für integrierte Getter- und Quecksilbergebenden -Vorrichtungen und somit erhaltene Vorrichtungen

Title (fr)

Combinaison de matériaux pour dispositifs intégrés de getter et d'apport de mercure et dispositif émisé obtenus

Publication

EP 0737995 B1 20000628 (EN)

Application

EP 96830202 A 19960409

Priority

IT MI950734 A 19950410

Abstract (en)

[origin: EP0737995A2] The mercury-dispensing combination according to the invention consists of a mercury-dispensing intermetallic compound A including mercury and a second metal selected among titanium, zirconium and mixtures thereof, preferably Ti3Hg, and a promoting alloy or intermetallic compound B including copper, tin and one or more metals selected among the rare earths, in particular misch metal (MM). There are also disclosed mercury-dispensing devices containing such a combination and in particular further including a getter material C, as well as a process for introducing mercury into the electron tubes, the process consisting in the introduction into the open tube of one of said devices, and then heating the device to get mercury free at a temperature between 600 DEG C and 900 DEG C for a time between 10 seconds and one minute after the tube sealing. <IMAGE> <IMAGE> <IMAGE> <IMAGE> <IMAGE> <IMAGE>

IPC 1-7

H01J 7/20; H01J 7/18; H01J 9/38

IPC 8 full level

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CPC (source: EP KR)

H01J 7/183 (2013.01 - EP); **H01J 7/20** (2013.01 - EP); **H01J 61/00** (2013.01 - KR); **H01J 61/26** (2013.01 - EP)

Cited by

WO2009080569A1; US6680571B1; EP1248285A3; ITMI20082187A1; ITMI20131658A1; EP1953800A1; US8253331B2; WO2006106550A1; WO2010066611A1; WO2006106551A1; US7982383B2; WO2011006811A1; US8427051B2; US8076848B2; WO2011104145A1; US8453892B2; US6679745B2; WO2006008771A1; WO2015052604A1; US7674428B2; US7976776B2; US9406476B2

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