

Title (en)

CLEANING PROCESS FOR METAL ELEMENTS OF CATHODE RAY TUBES

Publication

EP 0271135 B1 19930127 (DE)

Application

EP 87202251 A 19871118

Priority

DE 3639657 A 19861120

Abstract (en)

[origin: EP0271135A1] The metal elements have hitherto been degreased by washing with halogenated hydrocarbons. These degreasing agents pollute the environment. The novel process should be non-polluting and clean the metal elements so thoroughly that they are suitable for high vacuum use. <??>The metal elements (12) to be cleaned are heated for 5 to 45 minutes to 500-800 DEG C in a reducing atmosphere, preferably in a continuous furnace (1) which is structurally joined to a blackening furnace (2). <??>The process allows easy, reproducible, non-hazardous and non-polluting cleaning. After combustion of the waste gases, the emissions consist only of carbon dioxide and water. <??>Figure 2 shows equipment for carrying out the process. <IMAGE>

IPC 1-7

C23C 8/14; C23G 5/00; H01J 9/14

IPC 8 full level

B08B 7/00 (2006.01); **C23C 8/14** (2006.01); **C23C 8/16** (2006.01); **C23G 5/00** (2006.01); **H01J 9/14** (2006.01)

CPC (source: EP US)

C23C 8/16 (2013.01 - EP US); **C23G 5/00** (2013.01 - EP US); **Y10T 29/45** (2015.01 - EP US)

Cited by

EP0572780A3; EP0623692A1; WO0014289A1

Designated contracting state (EPC)

AT DE FR IT NL

DOCDB simple family (publication)

EP 0271135 A1 19880615; EP 0271135 B1 19930127; AT E85090 T1 19930215; DE 3639657 A1 19880601; DE 3783884 D1 19930311; JP 2716707 B2 19980218; JP S63137186 A 19880609; US 4919157 A 19900424

DOCDB simple family (application)

EP 87202251 A 19871118; AT 87202251 T 19871118; DE 3639657 A 19861120; DE 3783884 T 19871118; JP 28859587 A 19871117; US 36899989 A 19890614