

Title (en)  
CARTRIDGE HEATER WITH AN OVERLOAD CUT-OUT

Publication  
**EP 0086465 B1 19861015 (DE)**

Application  
**EP 83101305 A 19830211**

Priority  
DE 3204875 A 19820212

Abstract (en)  
[origin: EP0086465A1] 1. A tubular heater body comprising a heating coil (2) of resistance wire, which is disposed in a casing tube (1), embedded in insulating material (3), and in which fitted into the end of the casing tube is a tube portion (7, 13) which is insulated with respect to the casing tube (1), and in which an overheating protection means (9, 23) which is connected in series with the heating coil (2) and connected to a connection (11), in the form of a PTC-element, a heat sensor, a fusible element or a thermostat, is disposed in the unheated end of the tubular heater body, characterised in that the tube portion (7, 13) is connected in direct heat conducting relationship to the heating coil (2) and that the overheating protection means (9, 23) is replaceably inserted into the tube portion (7, 13) from the outside.

IPC 1-7  
**H05B 3/48**

IPC 8 full level  
**H05B 1/02** (2006.01); **H05B 3/48** (2006.01)

CPC (source: EP)  
**H05B 1/0252** (2013.01); **H05B 3/48** (2013.01)

Cited by  
EP2211588A1; EP2180759A1; GB2168903A; CN105775879A; EP0318895A3; US5020128A; EP3109564A1; FR2681496A1; EP0204850A1; FR2597222A1; US7949238B2; EP0779043A1; EP0157182A1; ITRM20110286A1; CN106630563A; EP0456216A3; DE4014753A1; CN102362545A; ITRM20100285A1; DE102006005322A1; EP1816901A3; DE102006005322B4; EP0318895A2; US11204186B2; US10932324B2; US9301341B2; WO2010083969A1; WO2016207392A1; WO2012168906A1; WO2014158360A1

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**EP 0086465 A1 19830824; EP 0086465 B1 19861015; EP 0086465 B2 19910306**; AT E23010 T1 19861115; DE 3204875 A1 19830901; DE 3204875 C2 19850207; DE 3367064 D1 19861120

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