

Title (en)
Resistance with PTC-behaviour

Title (de)
Widerstand mit PTC-Verhalten

Title (fr)
Résistance à comportement PTC

Publication
EP 0590347 B1 19960619 (DE)

Application
EP 93114118 A 19930903

Priority
DE 4232969 A 19921001

Abstract (en)
[origin: EP0590347A1] The electrical resistance element contains a resistance body (3) which is situated between two contact terminals (1, 2) and has PTC behaviour and which is composed of a polymer matrix (4) and a filler component made of electrically conducting particles (5) embedded in the polymer matrix (4). Despite a simple and inexpensive construction, this resistance element is claimed to be notable for good electrical conductivity in the low-resistance state and for a low response time for the PTC transition from the low- to the high-resistance state. This is achieved as a result of the fact that the electrically conducting particles (5) are at least partially formed in each case as composite bodies having electrically conducting surface and/or as hollow or porous bodies made of electrically conducting material and, compared with particles of solid construction made of conductive material, they have a lower specific density and/or a lower specific heat capacity in all cases. <IMAGE>

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H01C 7/02

IPC 8 full level
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