

Title (en)
ELECTRICAL LOAD RESISTOR

Title (de)
ELEKTRISCHER LASTWIDERSTAND

Title (fr)
RÉSISTANCE DE CHARGE ÉLECTRIQUE

Publication
EP 3783999 B1 20240306 (DE)

Application
EP 20191573 A 20200818

Priority
DE 102019212443 A 20190820

Abstract (en)
[origin: US2021054819A1] An electrical load resistance includes a housing having at least one U-shaped receiving pocket, in which at least one PTC heating element is accommodated. The PTC heating element includes at least one PTC element and at least one contact plate electrically conductively connected to the PTC element for energizing the PTC element. The contact plate has a terminal lug for plug contacting the PTC element, and the PTC heating element abuts at least on opposite main side surfaces of the receiving pocket in a heat-conducting manner and projects beyond the terminal lug of the receiving pocket. The housing of the electrical load resistance is closed, and thus has no inlet or outlet openings for a medium to be heated. Also provided is a device with an electrical load resistance for reducing the starting time of an internal combustion engine, a method for reducing the starting time of an internal combustion engine, and a use of a PTC heating device as an electrical load resistance for reducing the starting time of an internal combustion engine.

IPC 8 full level
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CPC (source: CN EP US)
F02D 41/068 (2013.01 - EP); **F02N 19/02** (2013.01 - CN US); **F24H 3/002** (2013.01 - EP); **F24H 3/0429** (2013.01 - EP); **F24H 9/1863** (2013.01 - EP); **F24H 9/1872** (2013.01 - EP); **H05B 1/0236** (2013.01 - EP US); **H05B 3/04** (2013.01 - EP); **H05B 3/10** (2013.01 - CN); **H05B 3/20** (2013.01 - US); **H05B 3/24** (2013.01 - EP); **H05B 3/50** (2013.01 - EP); **F02D 2041/026** (2013.01 - EP); **F02D 2250/24** (2013.01 - EP); **F02N 2200/023** (2013.01 - US); **F24H 2250/04** (2013.01 - EP); **H05B 2203/02** (2013.01 - EP US); **H05B 2203/023** (2013.01 - EP)

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