

Title (en)

HEATING CARTRIDGE WITH A PROTECTIVE TUBE

Title (de)

HEIZPATRONE MIT EINEM SCHUTZROHR

Title (fr)

CARTOUCHE CHAUFFANTE AVEC TUBE DE PROTECTION

Publication

EP 3424266 A1 20190109 (DE)

Application

EP 17709928 A 20170301

Priority

- DE 102016002569 A 20160304
- DE 102016111258 A 20160620
- EP 2017054760 W 20170301

Abstract (en)

[origin: WO2017149008A1] The invention relates to a heating cartridge with a protective tube (2), in particular for heating solid cartridges in SCR systems. The heating cartridge (3) is inserted into the protective tube (2) at a distance therefrom, and the protective tube (2) contacts a medium to be heated on the outer face of the protective tube. According to the invention, at least one spring element (6, 66) which contacts the heating cartridge (3) and the protective tube (2) in a heat-conductive manner is inserted into an intermediate space between the heating cartridge (3) and the protective tube (2), and the spring element (6) has at least one surface pressing against the protective tube (2), said pressing surface being pressed elastically against the inner face of the protective tube (2) by the biasing force of the spring element (6, 66) in the assembled state.

IPC 8 full level

H05B 3/44 (2006.01); **H05B 3/42** (2006.01); **H05B 3/48** (2006.01); **H05B 3/50** (2006.01); **H05B 3/82** (2006.01)

CPC (source: EP)

H05B 3/42 (2013.01); **H05B 3/50** (2013.01); **H05B 3/82** (2013.01); **H05B 2203/02** (2013.01)

Citation (search report)

See references of WO 2017149008A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102016111258 A1 20170907; EP 3424266 A1 20190109; EP 3424266 B1 20210120; WO 2017149008 A1 20170908

DOCDB simple family (application)

DE 102016111258 A 20160620; EP 17709928 A 20170301; EP 2017054760 W 20170301