

Title (en)

SHIELDED FLUOROPOLYMER WIRE FOR HIGH TEMPERATURE SKIN EFFECT TRACE HEATING

Title (de)

ABGESCHIRMTER FLUORPOLYMERDRAHT FÜR HOCHTEMPERATUR-HAUTEFFEKTBEGLEITHEIZUNG

Title (fr)

FIL DE FLUOROPOLYMÈRE BLINDÉ POUR CHAUFFAGE DE TRACE À EFFET KELVIN À HAUTE TEMPÉRATURE

Publication

**EP 3756418 A1 20201230 (EN)**

Application

**EP 19716977 A 20190222**

Priority

- US 201815902804 A 20180222
- IB 2019000175 W 20190222

Abstract (en)

[origin: WO2019162757A1] A skin effect heating system for long pipelines includes a heater cable disposed in a ferromagnetic or other conductive heat tube. A semiconductive jacket contacts the inner surface of the heat tube, where the charge density of the return current carried by the heat tube is at its highest. The semiconductive jacket material has a resistivity that is sufficiently low to reduce or eliminate arcing events such as corona discharge by allowing accumulated charge on the heat tube to dissipate. The resistivity is also high enough to prevent the return current from flowing into or through the semiconductive outer layer, so that heat production capacity of the system is maximized.

IPC 8 full level

**H05B 3/00** (2006.01); **H01B 9/02** (2006.01); **H05B 3/42** (2006.01)

CPC (source: EP)

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Citation (search report)

See references of WO 2019162757A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

**WO 2019162757 A1 20190829**; EP 3756418 A1 20201230; RU 2020131249 A 20220322; RU 2020131249 A3 20220415

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