

Title (en)
Electrical bushing

Title (de)
Elektrische Durchführung

Title (fr)
Traversée électrique

Publication
EP 3007184 A1 20160413 (EN)

Application
EP 14187731 A 20141006

Priority
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Abstract (en)

The present disclosure relates to an electrical bushing (1) comprising an electrically insulating sleeve (2) having a central longitudinal through hole (4) surrounding a central longitudinal axis (5) of the bushing, and an electrical conductor (3) positioned through the central longitudinal through hole (4) of the sleeve. The conductor comprises a longitudinal outer tube and a longitudinal inner tube (3b), concentrically located within the outer tube (3a), such that a tubular space is formed between the outer tube and the inner tube. A first end of the tubular space is delimited by a tube spacer (10) between the outer tube and the inner tube, and a second end of the tubular space is capped to form an enclosed tubular space. The enclosed tubular space contains a heat transfer fluid whereby a heat-pipe (6) is formed between the outer tube and the inner tube of the conductor. The outer tube extends longitudinally beyond the heat-pipe delimited by the tube spacer at the first end of the tubular space, and the inner tube has a design at said first end such that fluid can pass from between the outer tube and the inner tube into a central longitudinal space (9) formed in the inner tube, without passing longitudinally beyond the extension of the outer tube.

IPC 8 full level
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CPC (source: EP)
F28D 15/0233 (2013.01); **H01B 17/54** (2013.01); **H01B 17/26** (2013.01)

Citation (applicant)
• CN 101369483 A 20090218 - INST ELECTRICAL ENG CAS [CN]
• WO 2007107119 A1 20070927 - BEIJING RUIHENG SUPER HIGH VOL [CN], et al

Citation (search report)
• [A] US 3627899 A 19711214 - MOORE CURTIS L
• [AD] EP 2704157 A1 20140305 - ABB TECHNOLOGY LTD [CH]
• [A] JP S529889 A 19770125 - HITACHI LTD

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