

Title (en)

LONGITUDINALLY WATER-BLOCKED CABLE, ESPECIALLY COMMUNICATION CABLE

Publication

**EP 0039867 A3 19811223 (DE)**

Application

**EP 81103352 A 19810504**

Priority

- DE 3018141 A 19800512
- DE 3048074 A 19801219

Abstract (en)

[origin: US4387958A] Longitudinally water-tight cables, such as communication cables, are produced so that the interior of such cables contain a filling material which includes a water-repelling substance and relatively small diameter gas bubbles substantially uniformly embedded therein. The filling material contains an admixture of thermoplastic rubbers or rubber-like thermoplastic materials which are molten at the processing temperature utilized in the course of cable filling and which solidify at the normal operating temperature range of a cable by linking, hooking or coupling via thermoplastic blocks having a correspondingly low melting range, that is lying just below the cable filling temperature. The gas bubbles, which are generated during cable filling, are maintained at their respective spatial positions within the filling material by a rubber-like network which forms in the filling material and the linking or joining points in such network can withstand the buoyancy forces of the gas bubbles without rupture.

IPC 1-7

**H01B 7/28; H01B 13/22**

IPC 8 full level

**H01B 7/282** (2006.01)

CPC (source: EP US)

**H01B 7/282** (2013.01 - EP US); **Y10T 428/2927** (2015.01 - EP US); **Y10T 428/2935** (2015.01 - EP US); **Y10T 428/2947** (2015.01 - EP US); **Y10T 428/2975** (2015.01 - EP US)

Citation (search report)

- DE 2200306 B2 19760526
- DE 2243615 A1 19740307 - SIEMENS AG
- [A] DE 2361207 A1 19750612 - AEG TELEFUNKEN KABELWERKE

Cited by

EP0081248A1; EP0739974A3; EP0541007A1; US6258885B1; WO9309208A1

Designated contracting state (EPC)

AT BE CH FR GB IT NL SE

DOCDB simple family (publication)

**EP 0039867 A2 19811118; EP 0039867 A3 19811223; EP 0039867 B1 19840822; US 4387958 A 19830614**

DOCDB simple family (application)

**EP 81103352 A 19810504; US 37936882 A 19820518**