

Title (en)

LONGITUDINALLY WATER-BLOCKED CABLE, ESPECIALLY COMMUNICATION CABLE

Publication

**EP 0039867 B1 19840822 (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)

Cited by

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