Title (en)

CABLE, COMBINED CABLE MADE OF PLASTIC FIBERS AND STEEL WIRE STRANDS, AND COMBINED STRANDS MADE OF PLASTIC FIBERS AND STEEL WIRES

Title (de)

SEIL, KOMBINIERTES SEIL AUS KUNSTSTOFFFASERN UND STAHLDRAHTLITZEN SOWIE KOMBINIERTE LITZE AUS KUNSTSTOFFFASERN UND STAHLDRÄHTEN

Title (fr)

CABLE, CABLE COMPOSITE EN FIBRES SYNTHETIQUES, TORONS EN FIL D'ACIER ET TORON COMPOSITE EN FIBRES SYNTHETIQUES ET FILS D'ACIER

Publication

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Application

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Priority

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- DE 102007023710 A 20070518
- DE 102007024020 A 20070522

Abstract (en)

[origin: CA2685585A1] The invention relates to a combined cable having a core cable made of hig h-strength plastic fibers present as a twisted monofilament bundle (1) or a plurality of twisted monofilament bundles (6), and having an external layer (2, 7) of steel wire strands (4, 5), characterized in that the monofilament bundle or bundles (1, 6) is or are stretched to reduce the diameter and held in a cladding (2, 7), particularly braided cladding, in this state. The str ain of the core cable under load is thus reduced, so that the load distribut ion between the steel cross-section and the plastic cross-section of the cab le is improved. In the same sense, in reverse, in order to have the strain b ehavior of the strand layer approach that of the core cable, the cable has a n intermediate layer (3) made of an elastic plastic, in which the steel wire strands are pressed at a distance from each other, such that the external l ayer stretches under load and contracts radially.

IPC 8 full level

D07B 1/02 (2006.01); **D07B 1/06** (2006.01); **D07B 1/16** (2006.01)

CPC (source: EP KR US)

D07B 1/005 (2013.01 - EP US); **D07B 1/025** (2013.01 - EP US); **D07B 1/06** (2013.01 - KR); **D07B 1/0686** (2013.01 - EP US); **D07B 1/16** (2013.01 - KR); **D07B 1/165** (2013.01 - EP US); **D07B 5/12** (2013.01 - EP US); D07B 2201/102 (2013.01 - EP US); D07B 2201/1032 (2013.01 - EP US); D07B 2201/104 (2013.01 - EP US); D07B 2201/106 (2013.01 - EP US); D07B 2201/2023 (2013.01 - EP US); D07B 2201/2024 (2013.01 - EP US); D07B 2201/2026 (2013.01 - EP US); D07B 2201/2049 (2013.01 - EP US); D07B 2201/2052 (2013.01 - EP US); D07B 2201/2057 (2013.01 - EP US); D07B 2201/2065 (2013.01 - EP US); D07B 2201/2066 (2013.01 - EP US); D07B 2201/2068 (2013.01 - EP US); D07B 2201/2073 (2013.01 - EP US); D07B 2201/2074 (2013.01 - EP US); D07B 2205/201 (2013.01 - EP US); D07B 2205/2014 (2013.01 - EP US); D07B 2205/2042 (2013.01 - EP US); D07B 2205/205 (2013.01 - EP US); D07B 2401/2005 (2013.01 - EP US); D07B 2401/201 (2013.01 - EP US); D07B 2401/205 (2013.01 - EP US)

Cited by

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