

Title (en)  
Combined rope made of artificial fibres and steel wire strands and combined strand of artificial fibres and steel wires

Title (de)  
Kombiniertes Seil aus Kunststofffasern und Stahldrahtlitzen sowie kombinierte Litze aus Kunststofffasern und Stahldrähten

Title (fr)  
Corde combinée en fibres de matière synthétique et cordes d'acier ainsi que cordon combiné composé de fibres de matière synthétique et de fils d'acier

Publication  
**EP 2476801 B1 20150902 (DE)**

Application  
**EP 12162945 A 20080515**

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 high-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 strain of the core cable under load is thus reduced, so that the load distribution between the steel cross-section and the plastic cross-section of the cable is improved. In the same sense, in reverse, in order to have the strain behavior of the strand layer approach that of the core cable, the cable has an 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 layer 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)

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Cited by  
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**DE 102007024020 A1 20081120**; AU 2008253434 A1 20081127; AU 2008253434 B2 20130321; BR PI0811106 A2 20141209; BR PI0811106 B1 20180918; CA 2685585 A1 20081127; CA 2685585 C 20131224; CN 101688359 A 20100331; CN 101688359 B 20120321; EA 017642 B1 20130228; EA 200901559 A1 20100430; EP 2165017 A2 20100324; EP 2165017 B1 20141112; EP 2476801 A2 20120718; EP 2476801 A3 20130213; EP 2476801 B1 20150902; JP 2010527413 A 20100812; JP 5634260 B2 20141203; KR 101667419 B1 20161018; KR 20100021442 A 20100224; MX 2009011974 A 20091119; PL 2165017 T3 20150430; PL 2476801 T3 20160229; PT 2165017 E 20150105; PT 2476801 E 20151207; UA 101614 C2 20130425; US 2010071340 A1 20100325; US 8176718 B2 20120515; WO 2008141623 A2 20081127; WO 2008141623 A3 20090507; WO 2008141623 A8 20081231; ZA 200908380 B 20110223

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