

Title (en)
A high-voltage power cable

Title (de)
Hochspannungsenergiekabel

Title (fr)
Câble d' énergie à haute tension

Publication
EP 1191546 A1 20020327 (EN)

Application
EP 00203293 A 20000925

Priority
EP 00203293 A 20000925

Abstract (en)
The invention relates to a high-voltage power cable for submarine power transmission comprising two or more cable cores, each core comprising a conductor with an insulation system around the conductor, a sheath encompassing the cable cores, a tensile armour comprising a plurality of helical tensile wires wound around the sheath, and an outer protective cover jacketing the tensile armour, wherein one or more of the tensile wires, which are helically wound around the sheath, are wire ropes made of a multiple of braided or twisted strands or filaments. Hereby, the residual torsion in the tensile armour is reduced. This means that a flat high-voltage power cable is more flexible, easier to bend and that problems of torsion within the cable may be reduced or even eliminated without having to apply a further armour layer, thereby making the cable stiff and inflexible. <IMAGE>

IPC 1-7
H01B 7/14

IPC 8 full level
H01B 7/14 (2006.01); **H01B 7/22** (2006.01)

CPC (source: EP)
H01B 7/14 (2013.01); **H01B 7/226** (2013.01)

Citation (search report)
• [A] DE 1193122 B 19650520 - LAND & SEEKABELWERKE AG
• [A] US 3584139 A 19710608 - SWANSON ROBERT A

Cited by
EP1783786A3; CN108601121A; EP3985687A1; CN109215866A; US10475553B2; WO2013072124A1; WO2017057863A1; WO2022078909A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 1191546 A1 20020327

DOCDB simple family (application)
EP 00203293 A 20000925