

Title (en)
THREE CORE POWER CABLES WITH SURROUNDING PLASTIC FILLER

Title (de)
DREIADRIGE STROMKABEL MIT UMGEBENDEM KUNSTSTOFFFÜLLER

Title (fr)
CÂBLES D'ALIMENTATION TRIPOLAIRES AVEC CHARGE PLASTIQUE ENVIRONNANTE

Publication
EP 3244422 A1 20171115 (EN)

Application
EP 16305537 A 20160509

Priority
EP 16305537 A 20160509

Abstract (en)
A power cable having the components of a traditional three-core, steel wire armored power cable, but eliminating the metallic armoring wires. Impact resistance is provided by extruded plastic fillers (3) that are arranged to fill the interstices between conductors, and surround the conductors. The plastic fillers comprise an interstices-filling central portion (12) and two outwardly extending curved wing portions (13). The wing portions have a length and shape such that ends of adjacent wing portions abut one another and form a barrier between the intermediate core and the outer covering. The curved inner surface of the wing portions, together with curved inner surfaces of the interstices-filling central portion form semi-circular or mostly circular channels with which are positioned the cores.

IPC 8 full level
H01B 7/18 (2006.01)

CPC (source: EP)
H01B 7/1895 (2013.01)

Citation (applicant)
WO 2015040488 A2 20150326 - RHODIA OPERATIONS [FR]

Citation (search report)
[X] WO 2014202141 A1 20141224 - ABB TECHNOLOGY LTD [CH]

Citation (third parties)
Third party : Alastair Blake
• WO 2015040448 A1 20150326 - PRYSMIAN SPA [IT]
• EP 2233810 B1 20140226 - NEXANS [FR]
• WO 2011059337 A1 20110519 - AKER SUBSEA AS [NO], et al
• US 8723030 B2 20140513 - FIGENSCHOU ARILD [NO]
• WO 2005124095 A1 20051229 - AKER KVAERNER SUBSEA AS [NO], et al
• US 2005199415 A1 20050915 - GLEW CHARLES A [US]
• WO 2015040488 A2 20150326 - RHODIA OPERATIONS [FR]
• US 8723030 B2 20140513 - FIGENSCHOU ARILD [NO]
• WO 2005124095 A1 20051229 - AKER KVAERNER SUBSEA AS [NO], et al
• WO 2015040448 A1 20150326 - PRYSMIAN SPA [IT]
• WO 2008075964 A1 20080626 - AKER KVAERNER SUBSEA AS [NO], et al
• US 2005199415 A1 20050915 - GLEW CHARLES A [US]

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NO20211281A1; CN117976302A; US11978575B2; EP3848944A1; US11177054B2; IT20200000343A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3244422 A1 20171115; EP 3244422 B1 20200708; DK 3244422 T3 20201012

DOCDB simple family (application)
EP 16305537 A 20160509; DK 16305537 T 20160509