

Title (en)

POWER CABLE CAPABLE OF DETECTING FAILURE

Title (de)

STROMKABEL MIT DER FÄHIGKEIT ZUR DETEKTION EINES FEHLERS

Title (fr)

CÂBLE D'ALIMENTATION CAPABLE DE DÉTECTER UNE DÉFAILLANCE

Publication

EP 1999761 A4 20120829 (EN)

Application

EP 06716522 A 20060324

Priority

KR 2006001094 W 20060324

Abstract (en)

[origin: WO2007111389A1] Disclosed herein is a power cable capable of detecting failure. The power cable in accordance with one embodiment of this invention includes a conductor, and an auxiliary line which is inserted into an inner layer provided between the conductor and an outermost layer and is installed to extend in a longitudinal direction in a spiral arrangement. The auxiliary line is made of an optical fiber, and the thickness of the auxiliary line is determined so that the auxiliary line is cut or deformed by a force sufficient to cause damage to the power cable. Preferably, pitch of the auxiliary line is 30mm or less. Further, the inner layer corresponds to an anti-corrosive layer which is formed to protect against external impact or corrosion, or a polyethylene sheath which covers an insulator covering the conductor.

IPC 8 full level

H01B 7/32 (2006.01)

CPC (source: EP)

H01B 7/32 (2013.01); **H01B 9/005** (2013.01)

Citation (search report)

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Citation (examination)

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Designated contracting state (EPC)

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