

Title (en)

WRAPPING WIRE WITH C-SHAPED CROSS-SECTION, AND CABLE WRAPPING STRUCTURE AND METHOD USING THE SAME

Title (de)

WICKELDRAHT MIT C-FÖRMIGEM QUERSCHNITT SOWIE KABELWICKELSTRUKTUR UND VERFAHREN DAMIT

Title (fr)

FIL D'ENROULEMENT POSSÉDANT UNE SECTION TRANSVERSALE EN FORME DE C, ET STRUCTURE D'ENROULEMENT DE CÂBLE ET PROCÉDÉ D'UTILISATION ASSOCIÉS

Publication

**EP 2657407 B1 20151028 (EN)**

Application

**EP 10861053 A 20101221**

Priority

JP 2010072963 W 20101221

Abstract (en)

[origin: EP2657407A1] Provided are wrapping wire with a C-shaped cross-section, and cable wrapping structure and method using the same. The wrapping wire, which is spirally wound around the outer circumference of a main cable (1) and has a substantially C-shaped cross-section, is wound so as to form a first layer wherein the open side of the C-shaped cross-section being directed outward of the radial direction of the main cable (1), wrapping wire (2) is spirally wound at a condition where the wound wire parts are adjacent to one another, and a second layer wherein the open side of the C-shaped cross-section being directed inward of the radial direction of the main cable (1), wrapping wire (3) is spirally wound on the first layer at a condition where the wound wire parts are adjacent to one another. The wrapping wires (2, 3) are configured such that inside surfaces (4a, 5a) of arm portions of the C-shaped cross-section are formed obliquely relative to the radial direction of the main cable (1), and interlock to each other in the axial direction of the main cable (1), in a half-pitch displaced state. The problems encountered when using wrapping wire with a Z-shaped cross-section can be all overcome, enabling easy production and cost reduction of the wrapping wire itself, and structural simplification, size reduction and cost reduction of a wrapping machine.

IPC 8 full level

**D07B 1/06** (2006.01); **D07B 7/14** (2006.01); **E01D 11/02** (2006.01); **E01D 19/08** (2006.01); **E01D 19/16** (2006.01)

CPC (source: EP KR)

**D07B 1/06** (2013.01 - KR); **D07B 1/10** (2013.01 - EP); **D07B 7/14** (2013.01 - EP); **E01D 11/02** (2013.01 - KR); **E01D 19/08** (2013.01 - KR); **E01D 19/16** (2013.01 - EP KR); **D07B 2201/2002** (2013.01 - EP); **D07B 2201/2089** (2013.01 - EP)

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

DOCDB simple family (publication)

**EP 2657407 A1 20131030**; **EP 2657407 A4 20140723**; **EP 2657407 B1 20151028**; CN 103282584 A 20130904; CN 103282584 B 20140604; KR 101396764 B1 20140516; KR 20130087060 A 20130805; WO 2012086007 A1 20120628

DOCDB simple family (application)

**EP 10861053 A 20101221**; CN 201080070727 A 20101221; JP 2010072963 W 20101221; KR 20137018897 A 20101221