

Title (en)
OPTICAL COMMUNICATION BUNDLE AND ASSOCIATED OPTICAL CABLE

Title (de)
OPTISCHES KOMMUNIKATIONSBÜNDEL UND ZUGEHÖRIGES OPTISCHES KABEL

Title (fr)
FAISCEAU DE COMMUNICATION OPTIQUE ET CÂBLE OPTIQUE ASSOCIÉ

Publication
EP 4323822 A1 20240221 (FR)

Application
EP 22722309 A 20220413

Priority
• FR 2103791 A 20210413
• FR 2022050700 W 20220413

Abstract (en)
[origin: CA3214669A1] The invention relates to an optical communication bundle (10) comprising one layer (1), said layer (1) including at least three parallel optical fibers (2) which together define a first side of the layer (1) and a second side of the layer (1) opposite the first side, and a weft yarn (3) interlaced with the optical fibers (2) in order to maintain the optical fibers (2) relative to one another, said weft yarn (3) extending alternately on the first side and on the second side of the layer (1), passing through the layer (1) from the first side to the second side and from the second side to the first side. According to the invention, the layer (1) has a position in which it is wound about itself so as to form a bundle in which the optical fibers (2) are non coplanar; and the interlacing between the weft yarn (3) and the optical fibers (2) is adapted to allow the sheet (1) to pass from the wound position into an unwound position in which the optical fibers (2) are coplanar.

IPC 8 full level
G02B 6/44 (2006.01)

CPC (source: EP)
G02B 6/441 (2013.01); **G02B 6/4411** (2013.01); **G02B 6/4413** (2013.01); **G02B 6/4479** (2013.01); **G02B 6/4403** (2013.01); **G02B 6/448** (2013.01)

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
FR 3121761 A1 20221014; CA 3214669 A1 20221020; EP 4323822 A1 20240221; MX 2023012106 A 20231215; WO 2022219288 A1 20221020

DOCDB simple family (application)
FR 2103791 A 20210413; CA 3214669 A 20220413; EP 22722309 A 20220413; FR 2022050700 W 20220413; MX 2023012106 A 20220413