

Title (en)
TRANSFORMER FOR FASTENING TO A MAST OF AN ENERGY DISTRIBUTION NETWORK

Title (de)
TRANSFORMATOR ZUR BEFESTIGUNG AN EINEM MAST EINES ENERGIEVERTEILUNGSNETZES

Title (fr)
TRANSFORMATEUR DESTINÉ À ÊTRE FIXÉ À UN MÂT D'UN RÉSEAU DE DISTRIBUTION D'ÉNERGIE

Publication
EP 3685412 A1 20200729 (DE)

Application
EP 18800501 A 20181024

Priority
• DE 102017220782 A 20171121
• EP 2018079121 W 20181024

Abstract (en)
[origin: CA3082292A1] The aim of the invention is to create a transformer (20) for mounting on a mast of an air-insulated energy distribution network, the core of which transformer is protected against corrosion and environmental influences, while at the same time stable retention is provided. This aim is achieved, according to the invention, in that the transformer (20) has a winding block (1) having a solid insulating body, in which at least one upper voltage winding and at least one lower voltage winding are arranged. The winding block (1) delimits a completely peripherally closed central retention opening (25). Furthermore, a core unit (26) is provided, which has at least one magnetizable core (2.1, 2.2) and is inductively coupled to each lower voltage winding by means of each upper voltage winding. The core unit (26) extends through the retention opening (25) by means of at least one core leg and annularly extends around the winding block (1) on the outside by means of a ring portion (27). Retention means (7.1, 7.3, 5, 8.1) are provided for fastening the ring portion to the mast (8).

IPC 8 full level
H01F 27/06 (2006.01); **H01F 27/26** (2006.01); **H01F 27/32** (2006.01)

CPC (source: EP US)
H01F 27/06 (2013.01 - EP US); **H01F 27/08** (2013.01 - US); **H01F 27/24** (2013.01 - US); **H01F 27/266** (2013.01 - EP); **H01F 27/28** (2013.01 - US); **H01F 27/327** (2013.01 - EP); **H01F 27/022** (2013.01 - EP); **H01F 27/23** (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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102017220782 A1 20190523; BR 112020008549 A2 20201006; BR 112020008549 A8 20230425; BR 112020008549 B1 20240312; CA 3082292 A1 20190531; CA 3082292 C 20231010; CN 111357064 A 20200630; CN 111357064 B 20231201; EP 3685412 A1 20200729; MX 2020004193 A 20200803; US 11587714 B2 20230221; US 2020357559 A1 20201112; WO 2019101458 A1 20190531

DOCDB simple family (application)
DE 102017220782 A 20171121; BR 112020008549 A 20181024; CA 3082292 A 20181024; CN 201880074794 A 20181024; EP 18800501 A 20181024; EP 2018079121 W 20181024; MX 2020004193 A 20181024; US 201816765944 A 20181024