

Title (en)
Transformer

Title (de)
Wandler

Title (fr)
Transformateur

Publication
EP 2833378 B1 20160420 (EN)

Application
EP 13178808 A 20130731

Priority
EP 13178808 A 20130731

Abstract (en)
[origin: EP2833378A1] The present invention is concerned with the field of power electronics, such as an induction electric apparatus, in particular a medium frequency transformer 1. The transformer 1, at least comprises a core 2, a primary winding 3, a secondary winding 4, at least one cooling channel 5, and an enclosure 6, wherein the enclosure 6 accommodates the core 2, the primary winding 3, the secondary winding 4, and the cooling channel 5 and the enclosure 6 is filled with an insulating medium 7. The least one cooling channel 5 is provided for cooling of the primary winding 3, the secondary winding 4, the enclosure 6 and/or the insulating medium 7. An insulating element 8 is placed between the primary winding 3 and the secondary winding 4, wherein a first conducting shield 9 is placed between the insulating element 8 and the primary winding 3 and a second conducting shield 10 is placed between the insulating element 8 and the secondary winding 4. Further the first conducting shield 9 is electrically connected to the primary winding 3 and the second conducting shield 10 is electrically connected to the secondary winding. The first cooling channel 5 is placed between the first conducting shield 8 and the primary winding 3.

IPC 8 full level
H01F 27/32 (2006.01)

CPC (source: EP US)
H01F 27/08 (2013.01 - EP); **H01F 27/10** (2013.01 - EP); **H01F 27/2885** (2013.01 - EP); **H01F 27/32** (2013.01 - EP); **H01F 27/36** (2013.01 - EP); **H01F 27/363** (2020.08 - EP US)

Cited by
WO2018007514A1; EP4099348A3; CN112640014A; EP3770931A1; DE102018213661A1; EP3965126A1; US10141862B1; US11322287B2; US12051537B2; WO2018065189A1; EP4345854A1; US11798733B2; WO2020035224A1

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 2833378 A1 20150204; EP 2833378 B1 20160420

DOCDB simple family (application)
EP 13178808 A 20130731