Title (en)
TRANSFORMER CORE

Title (de)
TRANSFORMATORKERN

Title (fr)
NOYAU DE TRANSFORMATEUR

Publication
EP 2483897 A1 20120808 (DE)

Application
EP 10747202 A 20100825

Priority
• DE 102009048659 A 20090929
• EP 2010062399 W 20100825

Abstract (en)
[origin: WO2011039003A1] The invention relates to a method for producing a transformer core (200), among other things. According to the invention, adjacent plate edges are connected to one another by means of cold gas spraying using a material that can be magnetized. As a result, the magnetic flow can remain within the transformer plate without having to change to a neighboring transformer plate. Planar electrical eddy currents in the transformer plates can also be avoided and the electrical losses and the core noises can be reduced during operation of the transformer. By using a cold gas spraying method, bonding material can be formed on the basis of nanocrystalline or amorphous materials, for example. There is preferably one electrically isolating insert (300) provided between each of the two transformer plates after connecting the two plate edges of one of the transformer plates and before connecting the two plate edges of the next overlying transformer plate. According to the invention, the cold gas spray stream is thus prevented from hitting the underlying transformer plate when connecting the two plate edges of the overlying transformer plate.

IPC 8 full level
H01F 3/02 (2006.01); **H01F 27/245** (2006.01); **H01F 41/02** (2006.01)

CPC (source: EP KR)
C23C 24/04 (2013.01 - EP); **H01F 3/02** (2013.01 - EP KR); **H01F 27/245** (2013.01 - KR); **H01F 27/2455** (2013.01 - EP);
H01F 41/02 (2013.01 - KR); **H01F 41/0233** (2013.01 - EP)

Citation (search report)
See references of WO 2011039003A1

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 SE SI SK SM TR

DOCDB simple family (publication)
WO 2011039003 A1 20110407; BR 112012007571 A2 20160816; CN 102549681 A 20120704; CN 102549681 B 20160120;
DE 102009048659 B3 20110428; EP 2483897 A1 20120808; KR 101373974 B1 20140312; KR 20120062914 A 20120614;
MX 2012003763 A 20120612

DOCDB simple family (application)
EP 2010062399 W 20100825; BR 112012007571 A 20100825; CN 201080043497 A 20100825; DE 102009048659 A 20090929;
EP 10747202 A 20100825; KR 20127010822 A 20100825; MX 2012003763 A 20100825