

Title (en)  
TOROIDAL COIL WINDING MACHINE

Title (de)  
RINGSPULENWICKELMASCHINE

Title (fr)  
MACHINE D'ENROULEMENT DE BOBINE TOROÏDALE

Publication  
**EP 4170691 A1 20230426 (EN)**

Application  
**EP 21203515 A 20211019**

Priority  
EP 21203515 A 20211019

Abstract (en)  
A machine (100, 101) for winding toroidal coils with a fully automatic procedure, comprising a hook (11) shaped to grab the conductor wire (F) and vertically translating, and a forming arm (8) which is controllable in position on three axes, wherein the machine is configured to control the hook and the forming arm (8) so as to form the winding around a toroidal core (T).

IPC 8 full level  
**H01F 41/08** (2006.01); **H01F 41/082** (2016.01)

CPC (source: EP)  
**H01F 41/08** (2013.01); **H01F 41/082** (2016.01)

Citation (search report)

- [X] CN 213935949 U 20210810 - DONGGUAN ESM ELECTRONIC TECH CO LTD
- [I] CN 107424839 A 20171201 - ZHUJI STION ELECTRONIC CO LTD
- [A] JP S61130187 A 19860618 - TDK CORP
- [A] JP 2015050254 A 20150316 - TAGA MFG
- [A] JP H05275261 A 19931022

Cited by  
CN117471380A

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)  
**EP 4170691 A1 20230426; EP 4170691 B1 20231115; EP 4287228 A2 20231206; EP 4287228 A3 20240228**

DOCDB simple family (application)  
**EP 21203515 A 20211019; EP 23200647 A 20211019**