

Title (en)

Machine for winding toroidal components of electrical machines

Title (de)

Vorrichtung zum Bewickeln von ringförmigen Komponenten einer elektrischen Maschine

Title (fr)

Appareil pour le bobinage des enroulements toroïdaux d'une machine électrique

Publication

EP 2447964 A1 20120502 (EN)

Application

EP 11185782 A 20111019

Priority

IT MI20101995 A 20101027

Abstract (en)

A machine (1) for winding toroidal components of electrical machines, which comprises first means (5) for supporting the toroidal component (6) to be wound and first means (7) for actuating the toroidal component (6) with a rotary motion about its own axis (6a) in relation to the first supporting means (5). The machine also comprises: a winding element (14), which is shaped like a ring that can be closed in a position which is concatenated with the toroidal component (6), second means (17) for supporting the winding element (14) so that its axis (14a) is arranged substantially at right angles to the axis (6a) of the toroidal component (6), and second means (22) for the actuation of the winding element (14) with a rotary motion about its own axis (14a) with respect to the second supporting means (17). The winding element (14) is provided with a magazine (26) for gathering the winding wire (27) arranged on the winding element (14). The winding element (14) is rotatable about its own axis (14a) in relation to the second supporting means (17) by the action of the second actuation means (22) in one direction of rotation to accumulate the wire (27) that arrives from a spool (34) in the magazine (26) and to wind the wire (27) around the toroidal component (6) in a winding direction and in the opposite direction to wind the wire (27) around the toroidal component (6) in an opposite winding direction, by using at least part of the wire (27) accumulated in the magazine (26).

IPC 8 full level

H01F 41/08 (2006.01)

CPC (source: EP)

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Citation (search report)

- [X] GB 2020624 A 19791121 - SIEMENS AG
- [I] DE 10150818 A1 20030430 - RUFF GMBH & CO KG [DE]

Cited by

CN109036838A; CN105261475A; CN105405640A; CN103714970A; CN105405645A; CN106298230A

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