

Title (en)
Spool body for electric wire windings.

Title (de)
Spulenkörper für elektrische Drahtwicklungen.

Title (fr)
Corps de bobine pour enroulements de fil électrique.

Publication
EP 0018596 A1 19801112 (DE)

Application
EP 80102206 A 19800424

Priority
AT 336679 A 19790507

Abstract (en)
1. Coil body for electrical wire windings for transformers, chokes or the like, with a box-like basic part (1) having four faces situated at right angles to one another and for accomodating an iron core, wherein on either side the basic part carries flanges (6 to 13) which preferably lie in parallel planes and which delimit the width of the winding to be received, characterized in that a cover-like plate (14, 15), which in its dimensions corresponds to the outer end-side cross-sectional contour of the coil body, is articulated at the end side to at least one flange (12, 13) and is pivotable relative thereto, and the free edge of the plate and the edge of the counter flange (8, 9) have locking members, for example hooked projections (16) and eyes (17), through which, after the winding of the coil body und folding (41, 42) of the plate (14, 15), the latter is retained in the folded position and the cover-like plate (14, 15) has, at the lateral edges situated at right angles to the articulated lateral edge, bent-up webs (18, 19) facing towards the coil body and, prior to being folded over, it is displaced outwards relative to the plane of each flange (12, 13), to which it is articulated, by the height (h) of these webs (18, 19), wherein the webs (18, 19) of the cover-like raised plates overlap at the edge side straps (24, 25, 26 and 27) which are formed on the flanges (6, 7, 10, 11) which lie between the flanges carrying the cover-like plates (14, 15) and extend along the length thereof and which lie in the plane of the flanges carrying them and whose width (b) corresponds to at least half the winding width (B) and which, after the winding of the coil body, are folded over towards the flanks of the winding, and the basic part, flange, plate and locking members are made in one piece of an electrically insulating and heat-resistant plastics material.

Abstract (de)
Um die elektromagnetische Wicklung eines Spulenkörpers aus Sicherheitsgründen vor Zugriff zu schützen, müssen die Wicklung bzw. Teile davon abgedeckt werden. Der Spulenkörper ist so ausgebildet, daß die zum Schutz der Wicklung dienenden Einrichtungen unmittelbarer Bestandteil des Spulenkörpers sind und mit diesem einstückig ausgebildet werden, wobei die Ausgestaltung so getroffen ist, daß diese Bestandteile die Bewickelbarkeit des Spulenkörpers nicht behindern. Zu diesem Zweck sind an den stirnseitigen Flanschen 12', 13' des Wickelkörpers deckelartige Platten 14', 15' angelenkt. Die freien Ränder der Platten 14', 15' und die Ränder der jeweiligen Gegenflansche 8', 9' tragen Verriegelungsglieder 16', 17'. Die Ränder der deckelartigen Platten 15' und 14' übergreifen seitlich angeordnete Laschen 24, 25, 26 und 27 und bilden mit diesen ein die Wicklung zur Gänze umschließendes Gehäuse.

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H01F 5/06; H01F 5/02

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CPC (source: EP)
H01F 5/02 (2013.01); **H01F 5/06** (2013.01); **H01F 2005/043** (2013.01); **H01F 2005/046** (2013.01)

Citation (search report)
• DE 1613777 A1 19710422 - BLUM EISEN & METALLIND
• US 3378800 A 19680416 - LIBERMAN ARNOLD J
• DE 1187451 B 19650218 - NORDROHR WERKE KG
• GB 1529136 A 19781018 - PYE LTD
• DE 2005939 A1 19700903
• US 3470511 A 19690930 - HEINZEN ROBERT A
• DE 2119042 A1 19721026
• DE 2104421 B2 19720316
• DE 2235855 A1 19740131 - QUINTUS GERHARD
• DE 1936125 A1 19710128 - MAY & CHRISTE GMBH

Cited by
EP1744330A1; ES2114832A1; CN105144314A; US6992558B1; WO9824096A1; WO2007014704A1; WO2014177534A1

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