

Title (en)

Multi-layer coil of plural electric wires for transformer and its winding machine

Title (de)

Mehrschichtige Spule mit mehreren elektrischen Drähten für Transformator und deren Wickelmaschine

Title (fr)

Bobine multicouche de plusieurs fils électriques pour transformateur et sa machine de bobinage

Publication

EP 2237291 A2 20101006 (EN)

Application

EP 10000359 A 20100115

Priority

JP 2009090142 A 20090402

Abstract (en)

A plurality of flat-type electric wires (1A, 1B) fed individually are coated with a bonding agent by a bonding agent coating mechanism (2) so as to be held in overlapped constraint condition, thus impersonating a single flat-type electric wire (1) which in turn is molded by a molding unit 10 and piled up in laminated disk-like form by use of a stacking unit (11) to provide a multi-layer coil using plural flat-type electric wires. The multi-layer coil can attain the effect equivalent to an increase in cross-sectional area of the single flat-type electric wire and a molded transformer of a large capacity can be realized. Thus, by additionally providing a mechanism for keeping the flat-type electric wires (1A, 1B) in overlapped condition in a winding machine, a multi-layer coil using plural electric wires can be manufactured at low costs.

IPC 8 full level

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CPC (source: EP)

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