

Title (en)
Dry transformer coil and dry transformer

Title (de)
Trockentransformatorspule und Trockentransformator

Title (fr)
Bobine de transformateur à sec et transformateur à sec

Publication
EP 2793244 A1 20141022 (DE)

Application
EP 13002006 A 20130417

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EP 13002006 A 20130417

Abstract (en)
[origin: WO2014169997A1] The invention relates to a dry-type transformer coil (10), comprising at least two hollow-cylindrical windings (12, 14, 42, 44, 72, 74) which are nested one inside the other and are spaced radially apart, wherein axially (38, 64) extending cooling channels (30, 32, 34, 46, 48, 50, 88, 90, 92) which are arranged next to one another in at least three radially adjacent cooling channel planes (24, 26, 28) are formed by means of corresponding wall elements (18, 20, 22) in the hollow-cylindrical interspace (16) formed by the spacing. A narrowing element (36, 52, 54, 76, 78, 80) for narrowing the cooling channel cross section is arranged in at least one of the cooling channels located in a cooling channel plane that is neither radially on the inside (24) nor radially on the outside (28). The invention also relates to a dry-type transformer comprising a dry-type transformer coil according to the invention.

Abstract (de)
Die Erfindung betrifft eine Trockentransformatorspule (10), umfassend wenigstens zwei hohlzylindrische, ineinander verschachtelte und radial beabstandete Wicklungen (12, 14, 42, 44, 72, 74), wobei in dem durch die Beabstandung gebildeten hohlzylindrischen Zwischenraum (16) mittels entsprechender Wandungselemente (18, 20, 22) axial (38, 64) verlaufende Kühlkanäle (30, 32, 34, 46, 48, 50, 88, 90, 92) gebildet sind, welche in wenigstens drei radial benachbarten Kühlkanalebenen (24, 26, 28) nebeneinander angeordnet sind. In wenigstens einem der in einer weder radial innen (24) noch radial außen (28) liegenden Kühlkanalebene befindlichen Kühlkanäle ist ein Verengungselement (36, 52, 54, 76, 78, 80) zur Verengung des Kühlkanalquerschnitts angeordnet. Die Erfindung betrifft auch einen Trockentransformator mit einer erfindungsgemäßen Trockentransformatorspule.

IPC 8 full level
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H01F 27/2876 (2013.01); **H01F 27/322** (2013.01)

Citation (search report)

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- [XA] CN 102360833 A 20120222 - YUNNAN TONGBIAN ELECTRIC APPARATUS CO LTD
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