

Title (en)  
Transformator

Title (de)  
Transformator

Title (fr)  
Transformateur

Publication  
**EP 2182533 B1 20111214 (DE)**

Application  
**EP 08018770 A 20081028**

Priority  
EP 08018770 A 20081028

Abstract (en)  
[origin: EP2182533A1] The transformer (11) comprises a core limb (22) to which three windings (32) are arranged next to each other, where the lines of the windings are insulatedly guided against each other, each winding is formed from a core near lower tension winding (34), which is wound by an assigned upper tension winding (36) and the lines of the lower tension winding are axially guided so that the lateral distance between the windings is minimized. The lines of the lower tension windings are guided parallel to the core limbs in the region between the lower- and upper-tension windings. The transformer (11) comprises a core limb (22) to which three windings (32) are arranged next to each other, where the lines of the windings are insulatedly guided against each other, each winding is formed from a core near lower tension winding (34), which is wound by an assigned upper tension winding (36) and the lines of the lower tension winding are axially guided so that the lateral distance between the windings is minimized. The lines of the lower tension windings are guided parallel to the core limbs in the region between the lower- and upper-tension windings. The lines of the lower tension windings are displaced to each other at 120[deg] and are guided to the periphery parallel to the core limbs. The lines of the lower tension windings are guided parallel in one-side manner, to the core limbs. The lines of the nearly arranged lower tension windings are guided to one side and the lines of the other two lower tension windings are guided axially parallel to core limbs to opposite sides. The axial parallelly lines guided to the core limbs are equipped with a shrink tube. A shell-like spacer holder is interposed between the lower tension windings and the surrounding upper tension windings, where the radial extent of the spacer corresponds to the thickness of the lines and an annular gap is formed between the lower tension windings and the upper tension windings. An axis-parallel free spacer remains between each of the shell-like spacer holders interposed between lower tension windings and upper tension windings for lines. The shell-like spacer holder interposed between lower tension windings and upper tension windings, has a breadth that extends over a winding area of less than 120[deg] . A channel is provided in the annular gap for flowing with cooling liquid. Three core limbs are provided with three windings formed from lower and upper tension windings arranged next to each other, where the ends on both sides, of the core limbs are connected by a yoke.

IPC 8 full level  
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CPC (source: EP US)  
**H01F 5/04** (2013.01 - EP US); **H01F 30/12** (2013.01 - EP US)

Cited by  
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