

Title (en)

HIGH-CURRENT TRANSFORMER WITH INDIRECT ADJUSTMENT OF TENSION BY AN INTERMEDIATE CIRCUIT

Publication

**EP 0166952 B1 19870902 (DE)**

Application

**EP 85106456 A 19850524**

Priority

DE 3421277 A 19840607

Abstract (en)

[origin: EP0166952A1] 1. A high current transformer with indirect voltage adjustment via an intermediate circuit, consisting of a main transformer (8) and an additional transformer (9) arranged in a common boiler (10), whose low-voltage windings (1, 2) each consist of a plurality of parallel-connected winding conductors that in common form a 8 in cross-section at right angles to the winding axes, and are electrically connected to one another in series with the connection conductors (17) intersecting so that they are wound in opposing winding directions, characterised by the combination of the following features : - the two low-voltage windings (1, 2) each consist of a single-layer winding composed of a twisted conductor ; - one of a number of winding sections, stacked axially one-above-another, is provided for each parallel-connected winding conductor of each low-voltage winding (1, 2) ; - that mutually-corresponding winding sections of the two low-voltage windings (1, 2) are wound at one stretch in that before the start of the first winding section to be wound, a length of winding conductor sufficiently long for the last half winding and a lead of the last winding section to be wound is fixed to the first used winding core ; - that each winding conductor comprises at least two turns in each winding section ; and - that in the axial direction the low-voltage windings (1, 2) are longer than the respective assigned high-voltage winding (3, 5), so that the current distribution is virtually equal in the winding sections connected in parallel to one another.

IPC 1-7

**H01F 27/28**; **H01F 33/00**

IPC 8 full level

**H01F 27/28** (2006.01); **H01F 30/12** (2006.01)

CPC (source: EP)

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**EP 0166952 A1 19860108**; **EP 0166952 B1 19870902**; AT E29332 T1 19870915; BR 8502692 A 19860212; DE 3560541 D1 19871008; NO 164867 B 19900813; NO 164867 C 19901121; NO 852236 L 19851209

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