

Title (en)

Transformer with a turn ratio variable while in operation.

Title (de)

Transformator mit im Betrieb veränderlichem Windungsverhältnis.

Title (fr)

Transformateur avec rapport de transformation variable pendant le fonctionnement.

Publication

**EP 0192915 A1 19860903 (EN)**

Application

**EP 85830050 A 19850227**

Priority

EP 85830050 A 19850227

Abstract (en)

Transformer with a turn ratio variable while in operation which has at least two wires (20,22) wound together on the same core, exactly interleaved and insulated with respect to each other, and on them there is formed a collector free from insulation, on which a contact metal brush (24) slides, that at every moment, during its movement, touches every wire (20,22) of the winding at the most at only one point. The ends of the wires (20,22) are connected to each other, possibly through impedances and the end inductances counteract the internal circulation current due to the turn short-circuit. At least one turn of at least one wire (20,22) of the winding is only partially linked with the total flux of the magnetic core of the transformer. By means of the use of at least another parted flux turn, the balancing of the voltage differences at the ends of the numerous wires is assured anyway, and the arrangement is such that each wire of the collector has the same voltage difference with respect to each of the two contiguous wires.

IPC 1-7

**H01F 29/06**; H01F 5/00

IPC 8 full level

**H01F 29/06** (2006.01)

CPC (source: EP)

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Citation (search report)

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- US 3461379 A 19690812 - OKITA HIDEKI
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Cited by

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Designated contracting state (EPC)

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