

Title (en)

A WOUND TRANSFORMER CORE AND A METHOD AND APPARATUS FOR MANUFACTURING THEREOF

Title (de)

GEWICKELTER TRANSFORMATORKERN, VERFAHREN UND VORRICHTUNG ZUR DESSEN HERSTELLUNG

Title (fr)

NOYAU DE TRANSFORMATEUR ENROULE, PROCEDE ET APPAREIL POUR SA FABRICATION

Publication

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Application

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Priority

IL 0000243 W 20000427

Abstract (en)

[origin: WO0182316A1] A transformer core made of magnetic strips is presented for use in a power distribution transformer. The transformer core has a desired height and a substantially cylindrical toroidal shape produced by winding a multi-layer structure about a central axis of the toroid in a spiral like manner. Each layer in the structure is composed of a predetermined number of magnetic strips arranged along the central axis with air gaps naturally existing between each two adjacent strips of the layer. A number n of layers in the structure is defined by the magnetic properties of the strips. The layers are shifted with respect to each other a predetermined distance along the central axis such that each of the air gaps in one layer is overlapped by $(n-1)$ strips of the other layers of the structure.

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