

Title (en)

INDUCTIVE COMPONENT WITH A COOLING DEVICE AND USE OF SAID COMPONENT

Title (de)

INDUKTIVES BAUELEMENT MIT KÜHLVORRICHTUNG UND VERWENDUNG DES BAUELEMENTS

Title (fr)

COMPOSANT INDUCTIF AVEC DISPOSITIF DE REFROIDISSEMENT ET UTILISATION DE CE COMPOSANT

Publication

**EP 1647037 B1 20091111 (DE)**

Application

**EP 04763199 A 20040713**

Priority

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Abstract (en)

[origin: WO2005013296A1] The invention relates to an inductive component (1), for the formation of a magnetic circuit, with at least one wire winding (3) and at least one cooling device (20), for cooling the wire winding. The inductive component is characterised in that the cooling device comprises at least one composite material with at least one polymer material and at least one thermally-conducting filler. Heat generated in the wire winding during operation of the inductive component can be efficiently removed by means of the cooling device. For high frequency applications, a wire winding made with a high frequency litz wire and a core made from a high-frequency core material are particularly used. A miniaturised inductive component is thus possible which has a high Q value, even with a high power throughput and thus has low electrical losses. The inductive component is of application in so-called electronic ballast devices in lighting equipment.

IPC 8 full level

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