

Title (en)

PROCESS FOR MANUFACTURING TAPE WOUND CORE STRIPS AND INDUCTIVE COMPONENT WITH A TAPE WOUND CORE

Title (de)

VERFAHREN ZUM HERSTELLEN VON BANDKERNBÄNDERN SOWIE INDUKTIVES BAUELEMENT MIT BANDKERN

Title (fr)

PROCEDE DE FABRICATION DE BANDES A TORES ENROULES ET COMPOSANT INDUCTIF A TORE ENROULE

Publication

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Application

EP 97948723 A 19971106

Priority

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- DE 19653428 A 19961220

Abstract (en)

[origin: DE19653428C1] A new manufacturing process is disclosed for tape wound core strips made of an amorphous ferromagnetic material. An amorphous ferromagnetic strip is first cast by quickly solidifying a molten mass consisting of a cobalt-based alloy with 1 to 10 % by atoms of iron and/or manganese as alloying metals. The amorphous ferromagnetic strip is then continuously subjected to a thermal treatment in a magnetic field transverse to the longitudinal direction of the strip. After the thermally treated amorphous ferromagnetic strip is cut into tape cores, the tape cores are wound up, preferably into annular tape wound cores. Inductive components exhibiting excellent magnetic properties can be produced with these tape wound cores, in particular inductive components whose annular tape wound cores have an average diameter $d \leq 10$ mm.

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