Title (en)

Saddle coil for cathode ray tube deflection device

Title (de)

Sattelspule für Ablenksysteme von Kathodenstrahlröhren

Title (fr)

Bobine en forme de selle pour système de déflexion de tube à rayons cathodiques

Publication

EP 0607851 B1 19961120 (DE)

Application

EP 94100334 A 19940112

Priority

DE 4301305 A 19930120

Abstract (en)

[origin: CA2112774A1] A process and a device for producing self-supporting saddle coils (46), where first, a winding receiver (10), which has a base (11) and a cutout (13), is produced to form saddle coils (46). Segments (12) can be attached to the inside contour of the cutout (13). These segments (12) are spaced with respect to each other. These spaces, also called slots (14), serve to receive wires running in the Z-direction. The constructed length of the segments (12) is such, that their ends extend beyond the base (11), thus forming the chambers (16.u, 16.o) between the edges (15.o, 15.u) and the ends of segments (12) that curve away from the centerline. This winding receiver (10) is wrapped by a winding device (21), which wraps the wire in the slots (14) and the chambers (16.u, 16.o). When the winding pass of saddle coil (46) is formed, the wrapping wire (32), covered with thermoplastic material, is heated so that the windings of the wrapping wire (32) are bonded to each other, after cooling. The segments (12) are then removed from the cutout (13) and the finish-baked saddle coil (46) can be pulled out of the cutout (13).

IPC 1-7

H01J 9/236; H01F 41/08

IPC 8 full level

H01F 41/04 (2006.01); **H01F 41/08** (2006.01); **H01J 9/236** (2006.01)

CPC (source: EP)

H01F 41/08 (2013.01); **H01J 9/236** (2013.01); H01F 2041/0711 (2016.01); H01J 2209/2366 (2013.01)

Cited by

CN111992644A

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

DE 4301305 A1 19940721; CA 2112774 A1 19940721; CA 2112774 C 20040323; DE 59401051 D1 19970102; EP 0607851 A1 19940727; EP 0607851 B1 19961120; JP 3457729 B2 20031020; JP H076695 A 19950110

DOCDB simple family (application)

DE 4301305 A 19930120; CA 2112774 A 19940104; DE 59401051 T 19940112; EP 94100334 A 19940112; JP 487894 A 19940120