

Title (en)
PRINTED COIL TRANSFORMER

Title (de)
TRANSFORMATOR MIT GEDRUCKTEN SPULEN

Title (fr)
TRANSFORMATEUR A BOBINES IMPRIMEES

Publication
EP 0716435 A1 19960612 (EN)

Application
EP 95921971 A 19950615

Priority
• JP 9501195 W 19950615
• JP 14770294 A 19940629

Abstract (en)
A printed coil type transformer in a plane type transformer in which a mid-leg core 33 of EE shaped cores or EI shaped cores is disposed through the center of a spiral of a coil laminate 40 in which a plurality of concentric spiral coils are laminated in a thickness direction by using an insulating resin to obtain a magnetic coupling between the plurality of coils, characterized in that: sectional areas of the core at a feet core 34 and a connecting core 35 are approximately the same; the sectional area (Ae) of the mid-leg core is approximately twice of that of the feet core; the sectional area satisfies the following expression in connection with a core volume (Ve): $1.4 \leq \frac{Ve^{1/3}}{Ae^{1/2}} \leq 1.7$; and the following expression is satisfied between a space (w) between the mid-leg core and the feet core of the core and a height (h) of the mid-leg core: $0.5 \leq \frac{h}{w} \leq 2$. <IMAGE> <IMAGE> <IMAGE>

IPC 1-7
H01F 30/00

IPC 8 full level
H01F 17/00 (2006.01); **H01F 17/04** (2006.01)

CPC (source: EP)
H01F 17/0006 (2013.01); **H01F 17/04** (2013.01)

Cited by
CN105374492A; CN105895326A; GB2328801A; GB2328801B

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DE

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WO 9600972 A1 19960111; EP 0716435 A1 19960612; EP 0716435 A4 19961120; TW 436823 B 20010528

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JP 9501195 W 19950615; EP 95921971 A 19950615; TW 84106066 A 19950614