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Hui et al.

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(54) **PLANAR PRINTED-CIRCUIT-BOARD TRANSFORMERS WITH EFFECTIVE ELECTROMAGNETIC INTERFERENCE (EMI) SHIELDING**

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(51) **Int. Cl.⁷** **H01F 5/00**

(52) **U.S. Cl.** **336/200; 336/232; 336/223**

(58) **Field of Search** **336/200, 232, 336/223; 29/606, 602.1**

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(57) **ABSTRACT**

Novel designs for printed circuit board transformers, and in particular for coreless printed circuit board transformers designed for operation in power transfer applications, are disclosed in which shielding is provided by a combination of ferrite plates and thin copper sheets.

5 Claims, 13 Drawing Sheets

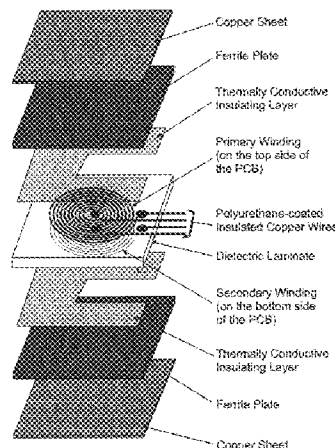


FIG. 1
(Prior Art)

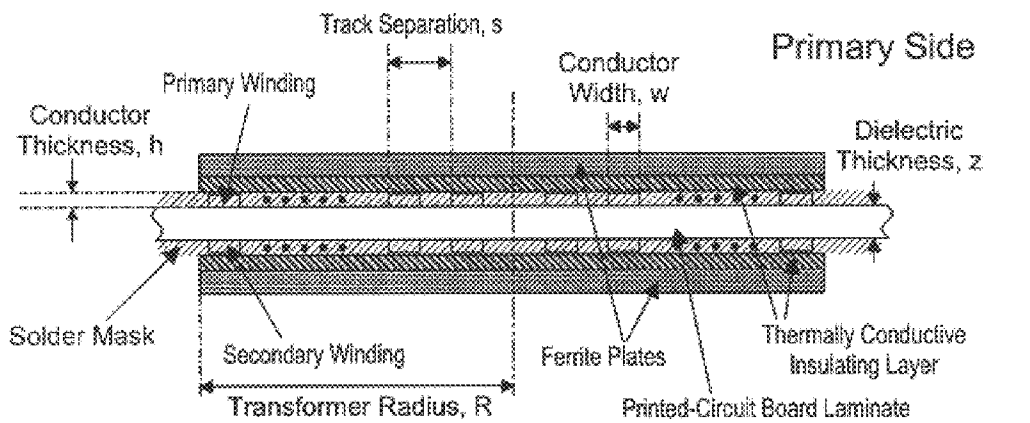
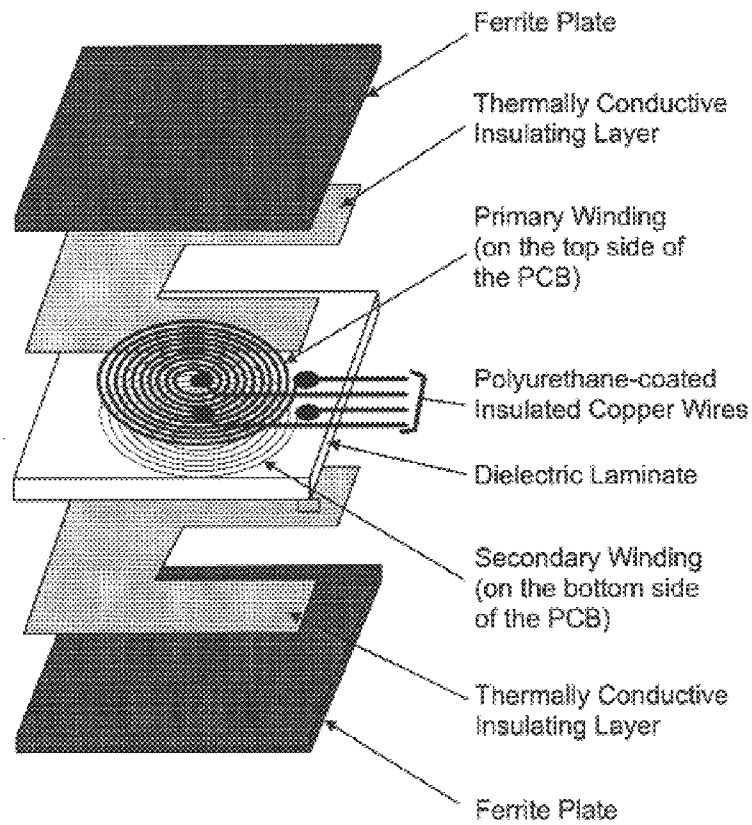


FIG. 2
(Prior Art)

FIG.3(a)

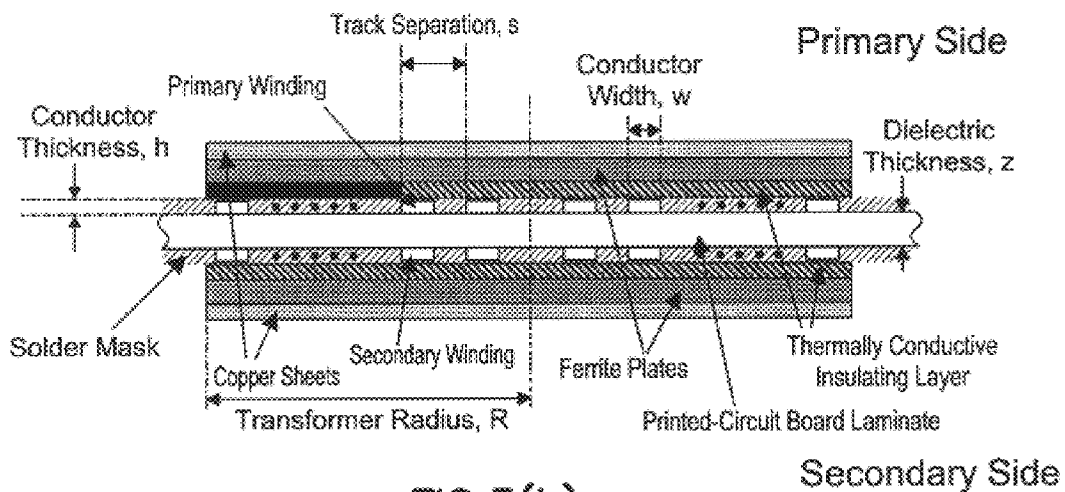
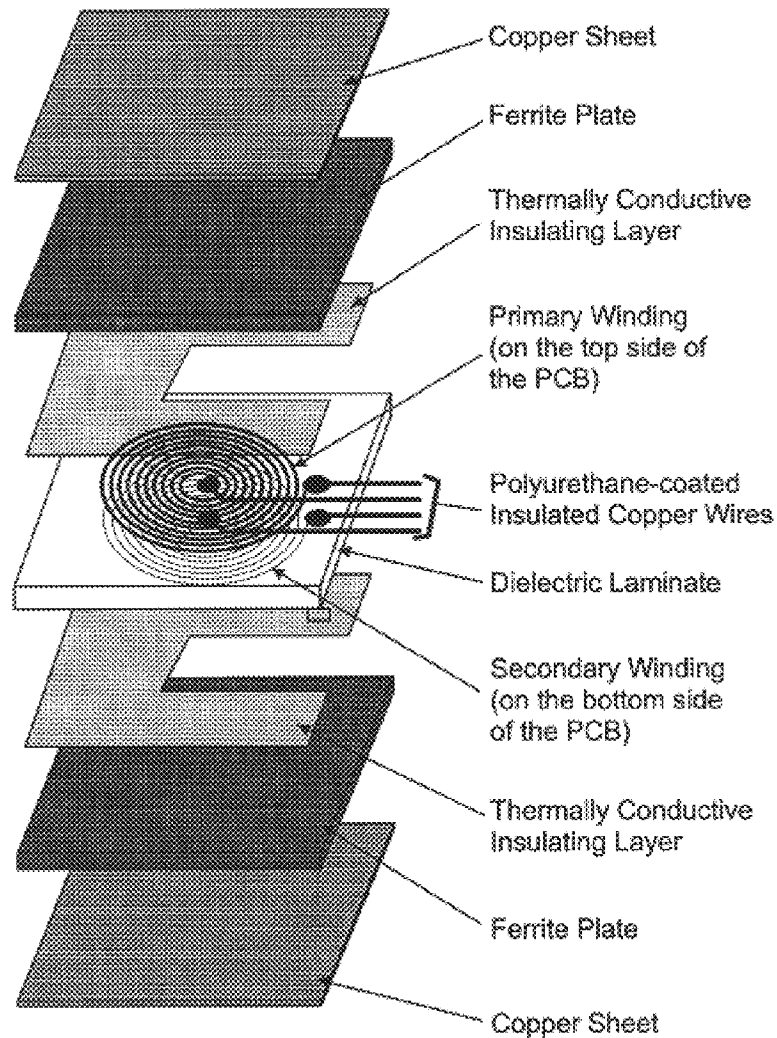


FIG.3(b)

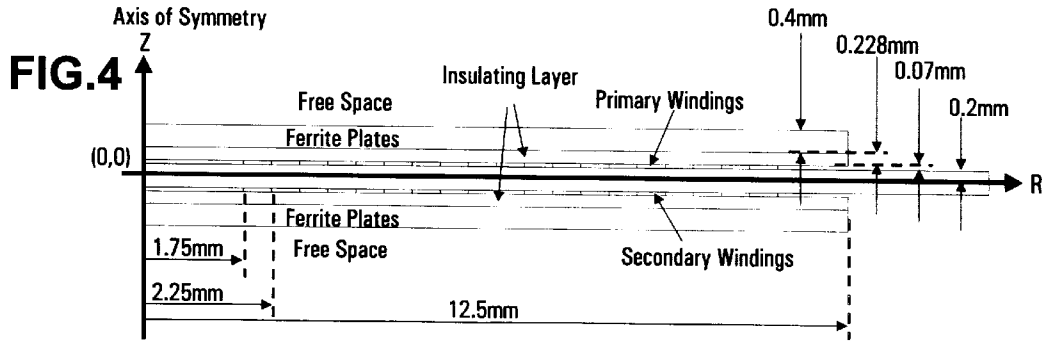


FIG.5

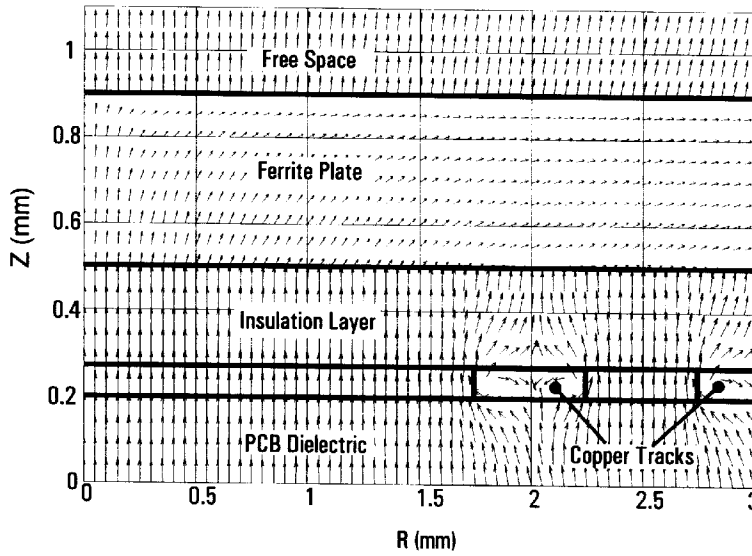


FIG.7

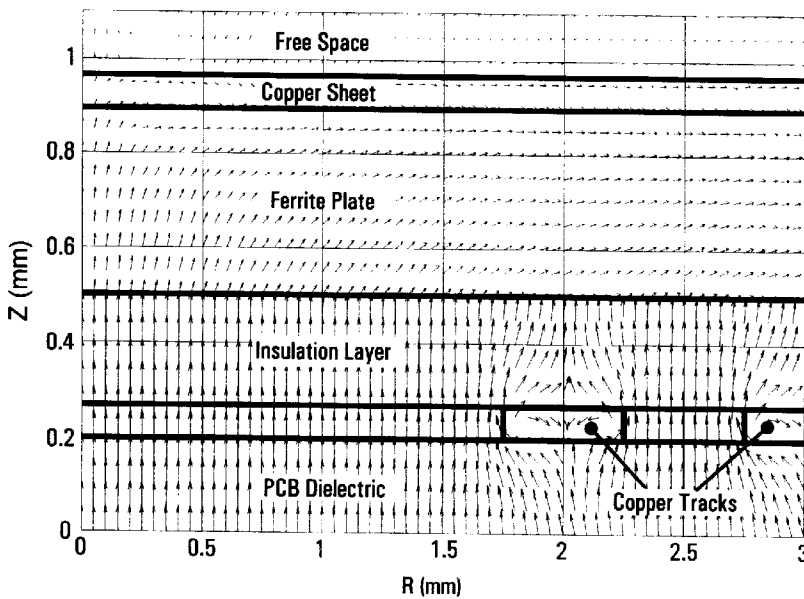


FIG.6

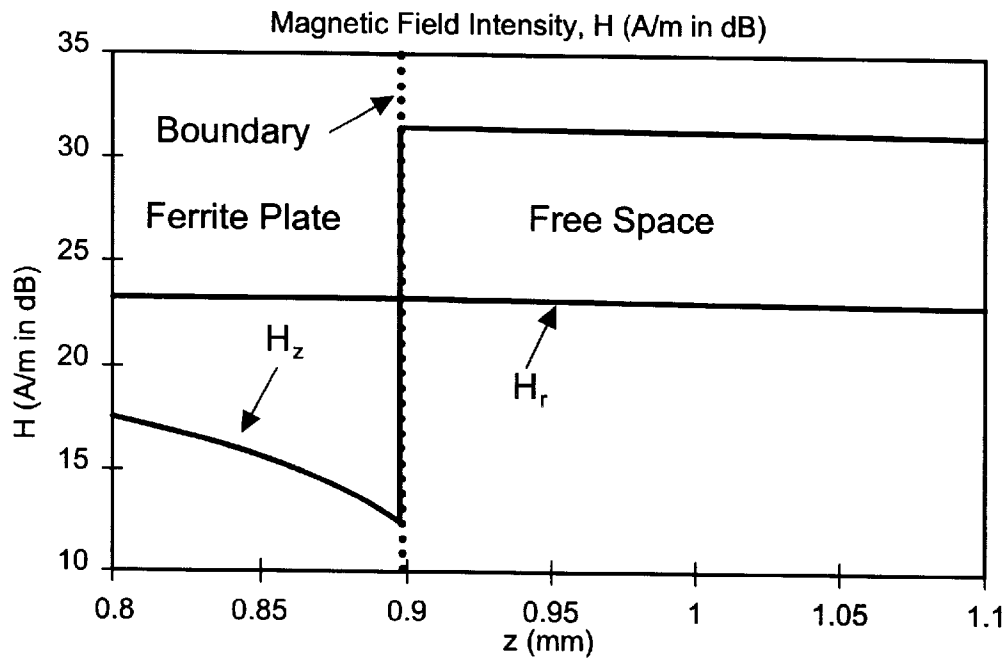
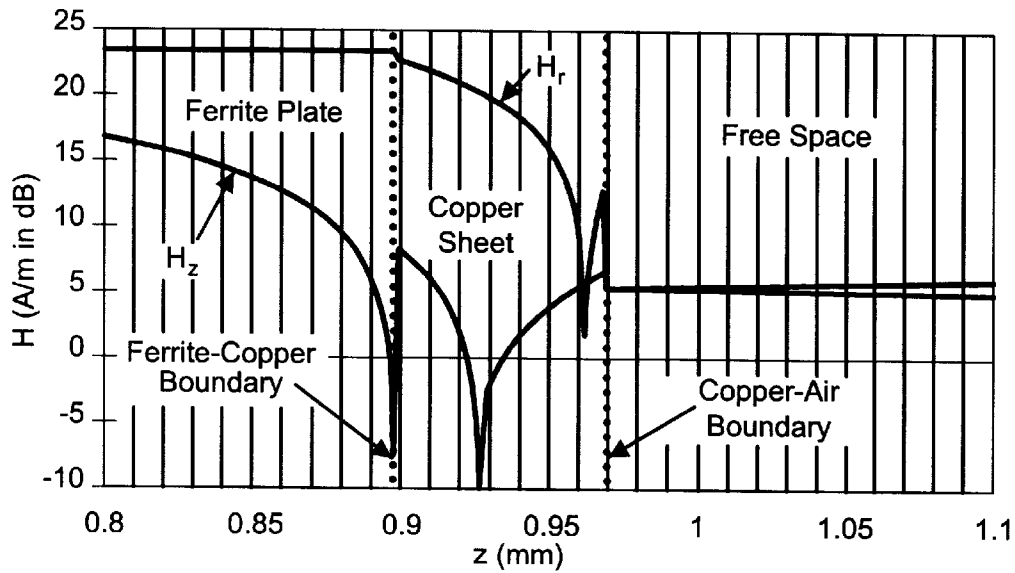


FIG.8



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