(54) Title  ENHANCED HEXAGONAL FERRITE MATERIAL AND METHODS OF PREPARATION AND USE THEREOF

(57) Abstract  Embodiments and aspects of the present invention relate to an enhanced hexagonal ferrite magnetic material doped with an alkali metal. The material retains substantial magnetic permeability up to frequencies in the gigahertz range with low losses. The material may be used in high frequency applications in devices such as transformers, inductors, circulators, and absorbers.

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