

[54] **BAR MAGNET FOR CONSTRUCTION OF A MAGNETIC ROLLER CORE**

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[58] **Field of Search** 335/302, 3, 304-306; 355/521; 118/657

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[57] **ABSTRACT**

An improved bar magnet and method of construction, and an improved magnetic core comprising an assembly of such magnets, for use in a processing station of an electrostatographic printing machine. The improved bar magnet is formed of permanent magnet material having magnetic domains therein that are magnetized along epicycloidal curve segments. The external magnetic flux density is improved over that of a conventionally-magnetized magnet. An injection mold for inducing the particular epicycloidal alignment of magnetic domains in the improved bar magnet is provided.

41 Claims, 5 Drawing Sheets

