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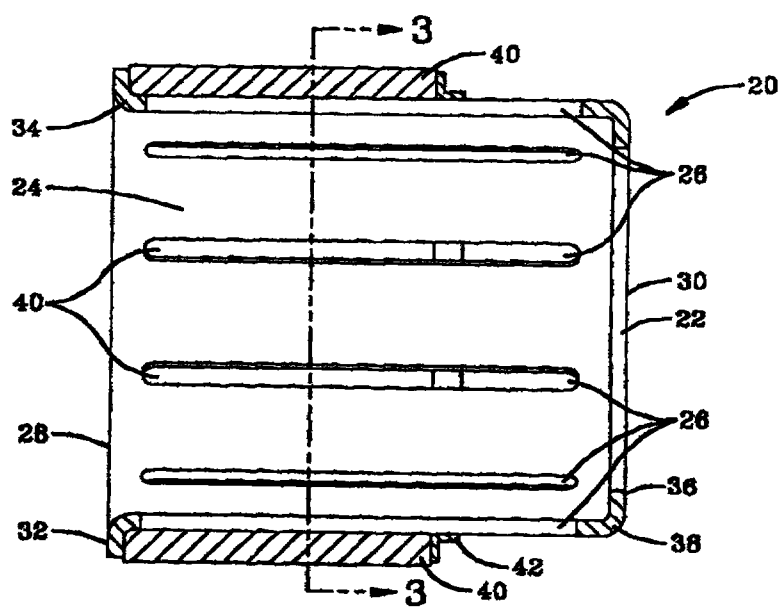


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(54) Title: MAGNET SUPPORT SLEEVE FOR LINEAR ELECTROMECHANICAL TRANSDUCER



(57) Abstract

A reciprocating magnetic body (20) support structure (42) for a linear motor or a linear alternator. The body (20) comprises a cylindrical, metallic support sleeve (22) having a plurality of longitudinal slots (26) evenly spaced around the circumference of the sleeve (22). An equal number of magnet segments (40) is mounted to the sleeve (22) extending over at least a portion of the associated slot (26) and attaching to the wall (24) of the sleeve (22) on both sides of the associated slot (26). The longitudinal slots (26) preferably extend completely through the sleeve (22) from near one longitudinal end of the sleeve (22) to near an opposite longitudinal end of the sleeve (22). The sleeve (22) is preferably stainless steel or titanium, but should, regardless of metal, have a high resistivity, i.e., above 50 micro ohms per centimeter.