

Title (en)  
ELECTRIC MOTOR-DRIVEN LINEAR GENERATOR

Title (de)  
ELEKTROMOTORISCHER LINEARGENERATOR

Title (fr)  
GÉNÉRATEUR ÉLECTROMOTEUR LINÉAIRE

Publication  
**EP 2294679 A1 20110316 (DE)**

Application  
**EP 08774663 A 20080702**

Priority  
EP 2008058529 W 20080702

Abstract (en)  
[origin: WO2010000316A1] An electric motor-driven linear generator is described, wherein at least one working magnet (18) in at least one wire-wound coil (12) can perform a back and forth movement (28). The working magnet is composed of two permanent magnets (20, 22), wherein poles of the same sign are fastened to each other in a planar manner and are optionally separated from each other by a disk (30) made of a magnetic nonconductor. The apparatus comprising the magnets and coil (n) is surrounded on the outside by a shielding made of mu-metal. Particularly high power is achieved if the permanent magnets arranged on the basis of having the same sign in the generator - and also the wire-wound coils - have an annular shape, wherein the annular magnets extend across the annular coils. The increase in induced voltage and current intensity achieved is several times higher because the magnetic field of the working magnet or magnets is amplified and focused on the coil.

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