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(54) Magnet system for an electromechanical switching device and electromagnetic relay

(57) A magnet system (100) for an electromechanical switching device. The magnet system (100) having an electromagnetic coil system (106). An iron circuit (108) having a core (110) and a yoke (112) partially surrounded by the electromagnetic coil system (106). The iron circuit (108) having a magnetic field excited by the electromagnetic coil system (106). A permanent magnet (120) arranged outside of the iron circuit (108) that has

field lines superimposed by the magnetic field of the electromagnetic coil system (106). The field lines of the permanent magnet (120) strengthen the magnetic field of the electromagnetic coil system (106) in a first region (130) and weaken the magnetic field of the electromagnetic coil system in a second region (128) such that the magnetic field in the first region (130) and the magnetic field in the second region (128) balance each other.

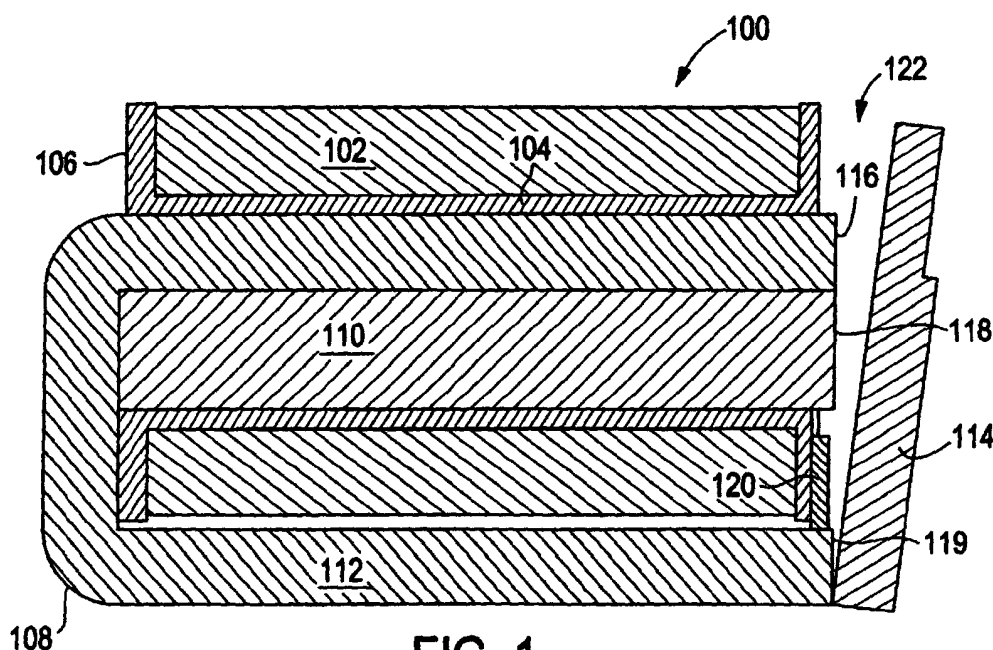


FIG. 1

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EUROPEAN SEARCH REPORT

Application Number
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Place of search		Date of completion of the search	Examiner
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CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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