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(54) Title: ELECTROMAGNETIC DEVICE ✓ (57) Abstract An electromagnetic device comprises a magnetic field generating electrical circuit including a winding (1) having at least one electrical conductor (2). The winding comprises a solid insulation (4) surrounded by outer and inner layers (3, 5) serving for equalization of potential and having semiconducting properties. Said at least one electrical conductor (2) is arranged interiorly of the inner semiconducting layer (3). The invention also relates to methods for electric field control and production of a magnetic circuit as well as use of a cable for obtaining a winding. 		