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(54) Title: RECEIVING DEVICE WITH COIL OF ELECTRIC LINE FOR RECEIVING A MAGNETIC FIELD AND FOR PRODUCING ELECTRIC ENERGY BY MAGNETIC INDUCTION AND WITH MAGNETIZABLE MATERIAL

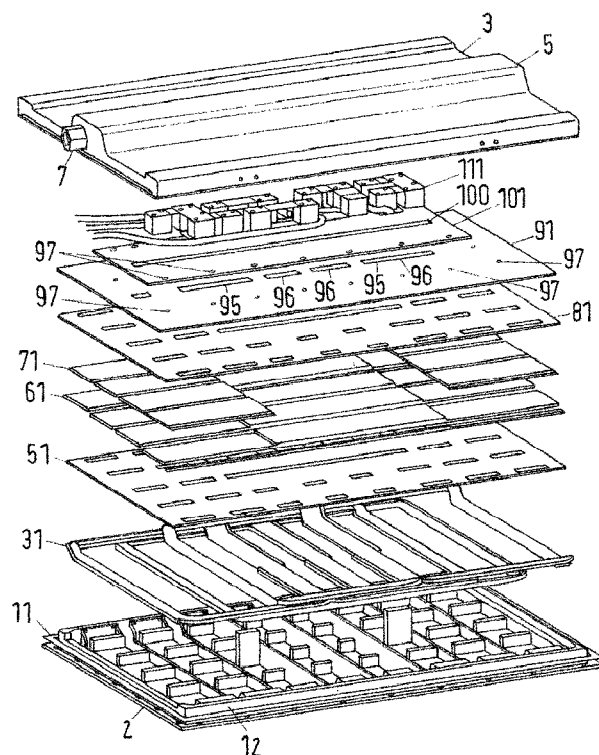


Fig.3

(57) Abstract: The invention relates to a receiving device (1) for receiving a magnetic field and for producing electric energy by magnetic induction, wherein - the receiving device (1) comprises at least one coil (33, 35, 37) of at least one electric line (32, 34, 36) and wherein the magnetic field induces an electric voltage in the at least one coil (33, 35, 37) during operation, - the receiving device (1) and the at least one coil (33, 35, 37) are adapted to receive the magnetic field from a receiving side of the receiving device (1), - the receiving device (1) comprises a field shaping arrangement (61) comprising magnetizable material adapted to shape magnetic field lines of the magnetic field, - the field shaping arrangement (61) is placed behind the at least one coil (33, 35, 37), if viewed from the receiving side of the receiving device (1), - a depth, to be measured in the direction from the receiving side of the receiving device (1) to the side of the receiving device (1) opposite to the receiving side, of the field shaping arrangement (61) varies. The invention also relates to a method of manufacturing a receiving device and an arrangement comprising the receiving device.



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