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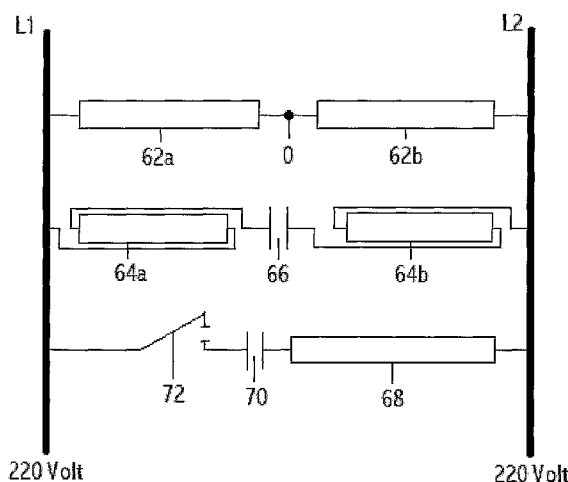
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(54) Title: APPARATUS AND METHOD FOR INCREASING EFFICIENCY OF ELECTRIC MOTORS



(57) Abstract: A single or multiphase alternating current electric motor or synchronous generator includes main windings and additional windings that perform de-saturation of the magnetic field of the main windings. Each additional winding is fed through at least one capacitor in a different phase angle and opposite field directions from the respective main windings. The total cross sections of the wire used on each main and additional winding are of predetermined sizes and preferably follow the approximate ratio of approximately two-thirds (2/3) for the main winding and approximately one-third (1/3) for the additional winding, and the respective capacitor values are predetermined. The number of turns of each additional winding is from fifty to one hundred percent (50%-100%) of the number of turns of its respective main winding. The two windings are built simultaneously in a single operation.

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