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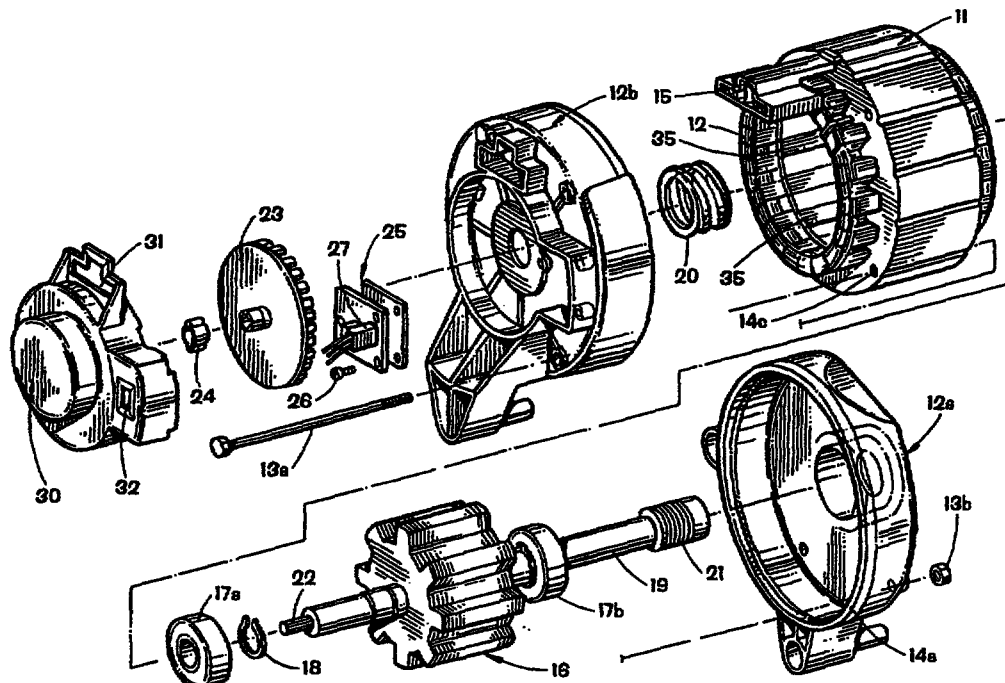
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(54) Title: REDUCED NOISE RELUCTANCE MACHINE

**(57) Abstract**

A reluctance machine system is provided that comprises a reluctance machine having a stator defining a plurality of stator poles, a plurality of phase windings wound around the stator poles and a rotor defining rotor poles and inter-pole gaps. Contoured topsticks (35), a dust cover (30) and an endshields (12a, 12b) are used to reduce the amount of noise in the reluctance system. A winged terminal housing (15) is also used to allow manipulation of the terminal housing and enhance alignment while protecting critical wires.