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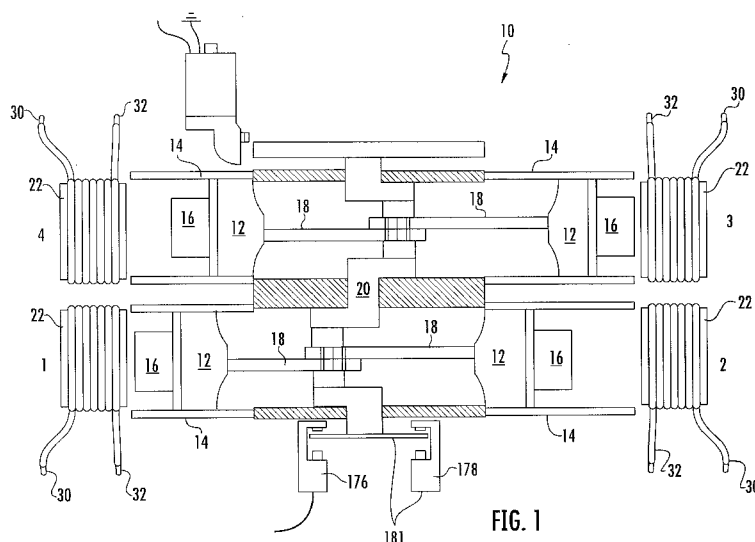


FIG. 1

(57) Abstract: The instant invention provides a magnetically controlled reciprocating engine having a unique electromagnet control system. The engine is constructed and arranged to operate from a stored power source such as batteries to provide extended run times by controlling the power supplied to the electromagnets in a manner that controls heat generation within the electromagnetic coils, thereby increasing coil life. The control system is also capable of controlling engine speed and/or torque outputs to make the engine versatile for a wide variety of uses. The system is constructed and arranged to be utilized on new or pre-existing engines of various configurations and may be utilized in other industries or devices that benefit from the use of electromagnets.