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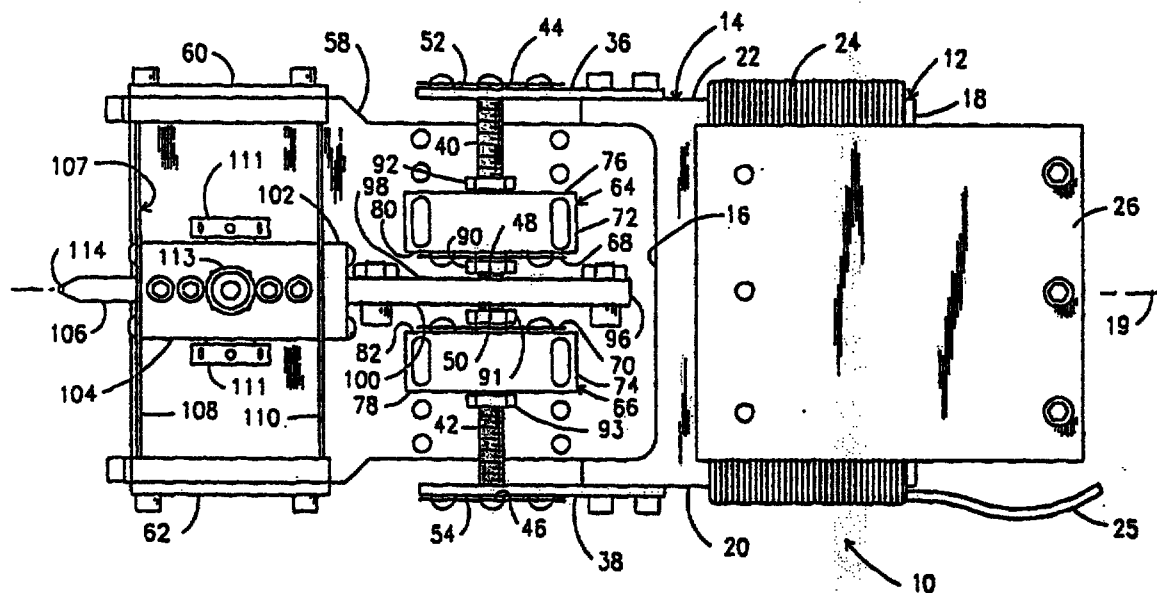
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(54) Title: RECIPROCATING TOOL HOLDER ASSEMBLY



(57) Abstract

A reciprocating tool post assembly is disclosed that may provide substantially linear excursions of a cutting tool mounted therein. The apparatus includes a voice coil assembly having a longitudinal axis that provides for the reciprocating movement of the assembly and to which a pair of coil arms is attached. The assembly also includes a pair of lever arms, each being pivotally attached between a respective coil arm and a draw bar, with a pair of fulcrum members attached to a base of the assembly that engage each respective lever arm to provide a fulcrum about which each respective lever arm may pivot. One end of the draw bar is attached to a tool support that is guided in a substantially axial movement by a guide member, such that, when a cutting tool is attached to the tool support the movement of the voice coil causes the cutting tool to reciprocate substantially axially with respect to the base.