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(54) **CORDLESS MULTI-PURPOSE HIGH TORQUE GENERATING ASSEMBLY**
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Related U.S. Application Data

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(51) **Int. Cl.**⁷ **H02K 7/14**

(52) **U.S. Cl.** **310/50; 310/47; 310/75 R; 310/83**

(58) **Field of Search** 310/47, 50, 75 R, 310/83, 48, 73 R

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(57) **ABSTRACT**

A portable power tool provides operating torque for a rotary load. The portable power tool includes an offset rotary sleeve for coupling attachment to the power input shaft of the rotary load. A gearing assembly provides right angle torque transfer from an in-line D.C. motor. The gearing assembly is driven by an output power shaft which is powered by a DC electrical motor. The rotary sleeve coupling is supported on opposite ends by a first bearing on an upper portion of the rotary sleeve coupling and by a second bearing on a lower portion of the rotary sleeve coupling. The D.C. motor is powered by a rechargeable battery.

11 Claims, 11 Drawing Sheets

