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Sachs et al.

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(54) **ORIENTATION OF A ROTOR**

FOREIGN PATENT DOCUMENTS

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 29 days.

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(51) **Int. Cl.**
H02P 21/18 (2016.01)
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(57) **ABSTRACT**

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CPC H02P 21/18 (2016.02); H02P 21/22
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One or more examples relate, generally, to an orientation of a rotor. Some examples relate to an apparatus. The apparatus may include sample-accumulation logic to generate, over a time duration, a value indicative of inductance at least partially responsive to a probe signal provided to a stator of a motor. The apparatus may also include a probe-current discriminator to generate a further value indicative of an orientation of a rotor of the motor at least partially responsive to the generated value. The apparatus may also include update logic to update a process variable of a control loop at least partially responsive to a state of the further value.

(58) **Field of Classification Search**
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See application file for complete search history.

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21 Claims, 11 Drawing Sheets

