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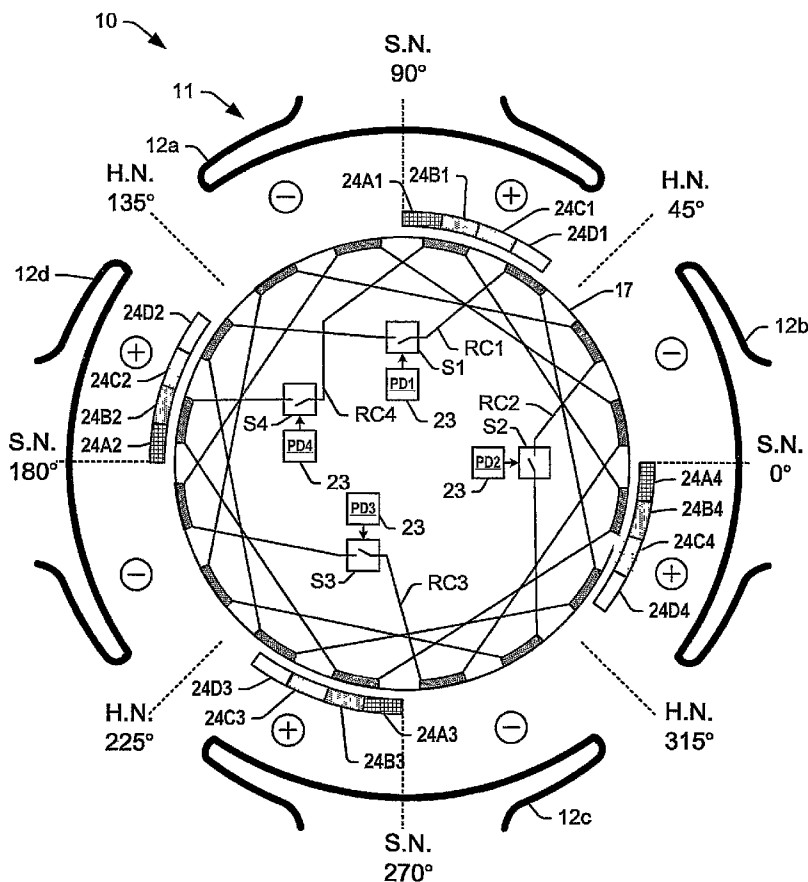
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(54) **Title:** IMPROVED SIGNALING AND REDUCED TORQUE RIPPLE IN BRUSHLESS REPULSION MOTORS



(57) **Abstract:** Brushless repulsion motors are presented, in which rotor coils switching signal detectors are selectively located in spaced angular relationship on the rotor and signaling sources are distributed around all or most of the stator circumference to allow looser tolerances for motor manufacturing and improved controllability of rotor coil actuation during operation. Asymmetric stator poles are also provided for brushless repulsion motors to mitigate torque ripple and vibration, in which the shape of the stator pole tips is tailored by varying the angular length of the pole section.

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C DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X --- Y Y A A	US 5,936,374 A (HANER) 10 August 1999 (10 08 1999) entire document JP 2000/341913 A (HIRAKO et al) 08 December 2000 (08 12 2000), entire document US 6,321,032 B1 (JONES et al) 20 November 2001 (20 11 2001) Figures US 5,103,225 A (DOLAN et al.) 7 April 1992 (07 04 1992) Figures	11 --- 12-20 12-20 1-20 1-20
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