

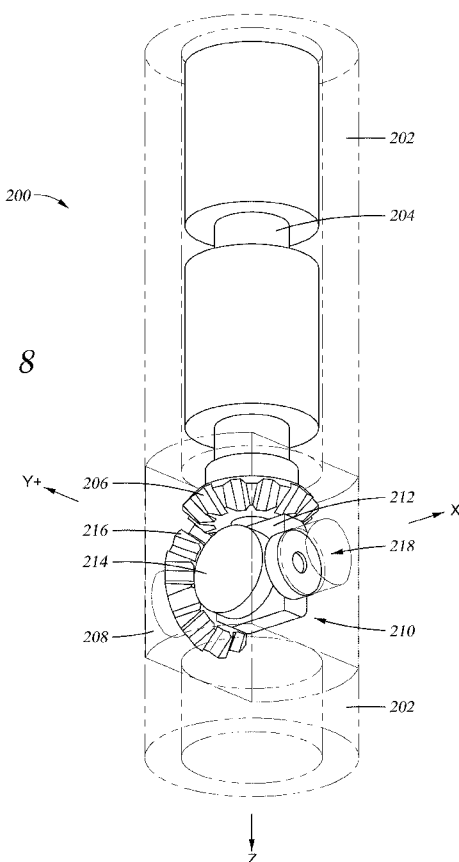


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[Continued on next page]

(54) Title: DOWNHOLE INSTRUMENT CALIBRATION DURING FORMATION SURVEY

Fig. 8



(57) Abstract: A downhole sensor calibration apparatus includes a rotational or gimbaling mechanism for guiding a sensing axis of an orientation responsive sensor through a three-dimensional orbit about three orthogonal axes. A method includes using measurements taken over the three-dimensional orbit to calibrate the sensor and determine other characteristics of the sensor or tool.



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