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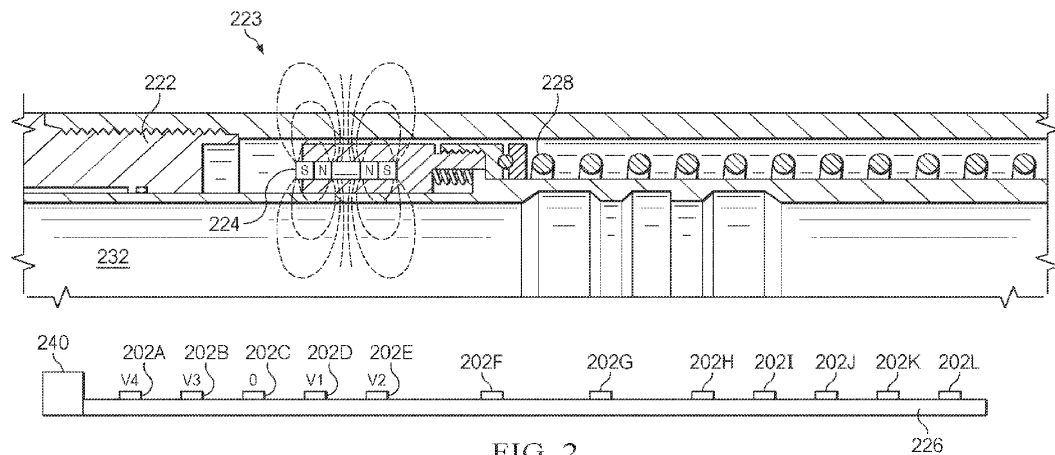
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(54) Title: DOWNHOLE VALVE POSITION SENSING SYSTEMS, DOWNHOLE VALVES, AND METHODS TO DETERMINE A POSITION OF A DOWNHOLE VALVE



(57) Abstract: A downhole valve position sensing system includes a magnetic material that is shiftable by an actuation member of a downhole valve to a plurality of positions along a downhole valve from a first position of the plurality of positions along the downhole valve. The downhole valve position sensing system also includes a sensor assembly that is mechanically coupled to the downhole valve and comprising a magnetic sensor that is configured to detect a magnetic signal generated by the magnetic material at a set of positions of the plurality of positions along the downhole valve.

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