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(54) Title: METHODS TO MONITOR A METALLIC SEALANT DEPLOYED IN A WELLBORE, METHODS TO MONITOR FLUID DISPLACEMENT, AND DOWNHOLE METALLIC SEALANT MEASUREMENT SYSTEMS

(57) Abstract: The disclosed embodiments include methods to monitor expansion of a metallic sealant deployed in a wellbore, methods to monitor downhole fluid displacement, and downhole metallic sealant measurement systems. The method to monitor expansion of a downhole metallic sealant includes deploying a metallic sealant deployed along a section of a wellbore. The method also includes exposing the metallic sealant to a reacting fluid to initiate a galvanic reaction. The method further includes measuring a change in temperature caused by the galvanic reaction. The method further includes determining an amount of expansion of the metallic sealant based on the change in the temperature.

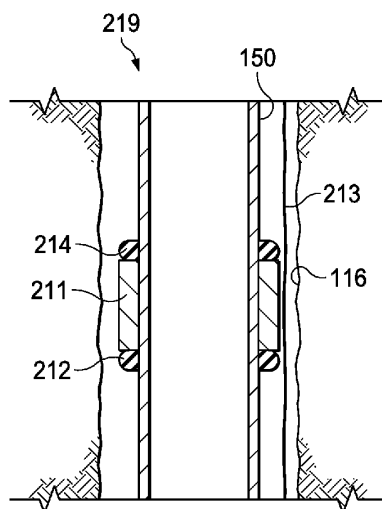


FIG. 2A

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