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(54) **Title:** REACTIVE METAL FOR CEMENT ASSURANCE

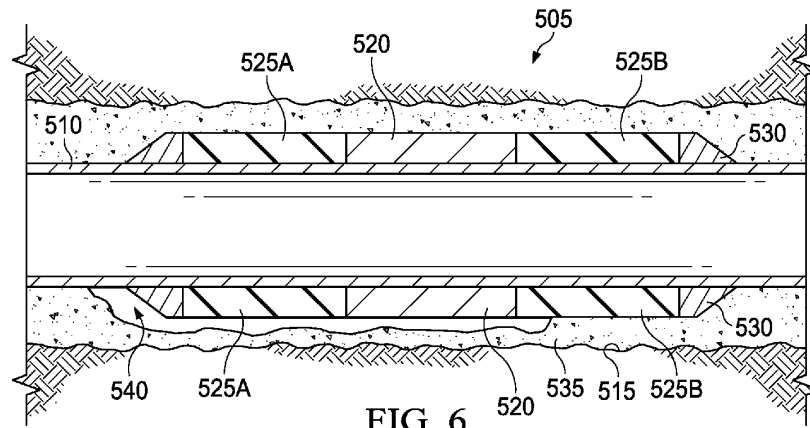


FIG. 6

(57) **Abstract:** Methods and systems for cementing in a wellbore. An example method includes introducing a conduit into a wellbore. The conduit comprises a reactive metal element disposed on an exterior of the conduit. The reactive metal element comprises a reactive metal having a first volume. The method further includes circulating a cement over the exterior of the conduit and the reactive metal element, contacting the reactive metal element with a fluid that reacts with the reactive metal to produce a reaction product having a second volume greater than the first volume, and contacting a surface of the cement adjacent to the reactive metal element with the reaction product.

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