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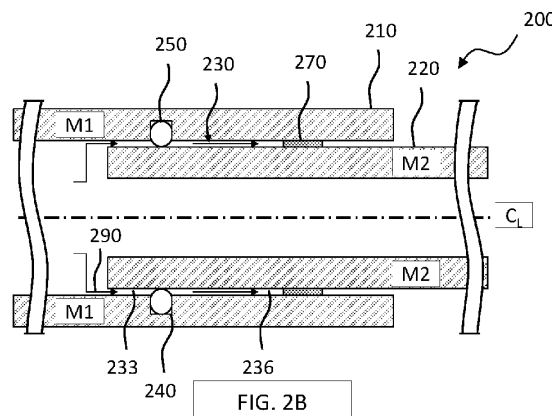
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- (54) **Title: SELF ACTIVATING SEAL ASSEMBLY BACKUP**



- (57) **Abstract:** Provided is a seal assembly. The seal assembly, in one aspect, includes a first member, the first member formed of a first material, and a second member overlapping with the first member, the second member formed of a second material, the first and second members defining an overlapping fluid leakage path. The seal assembly according to this aspect further includes a primary seal positioned in the overlapping fluid leakage path, the primary seal configured to prevent fluid from passing from a first side of the overlapping fluid leakage path to a second side of the overlapping fluid leakage path. The seal assembly according to this aspect additionally includes an expandable metal backup seal positioned in the second side of the overlapping fluid leakage path, the expandable metal backup seal including a metal configured to expand in response to hydrolysis.



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