FIG. 1 **PRIOR ART**

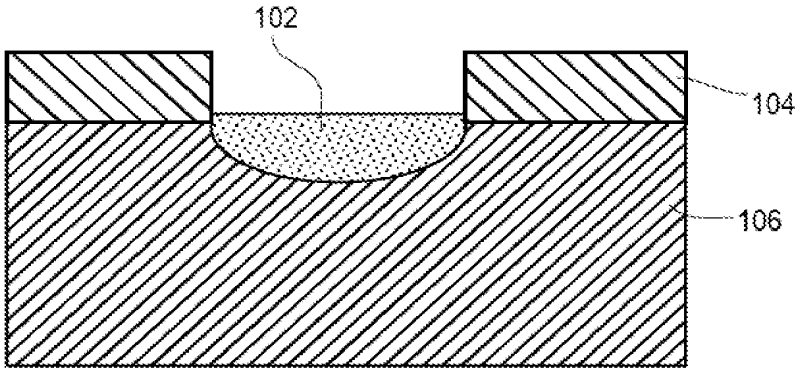
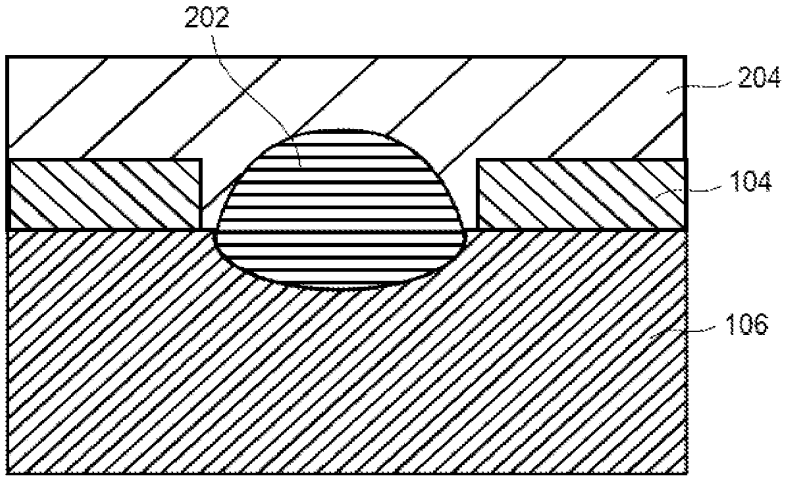


FIG. 2 **PRIOR ART**



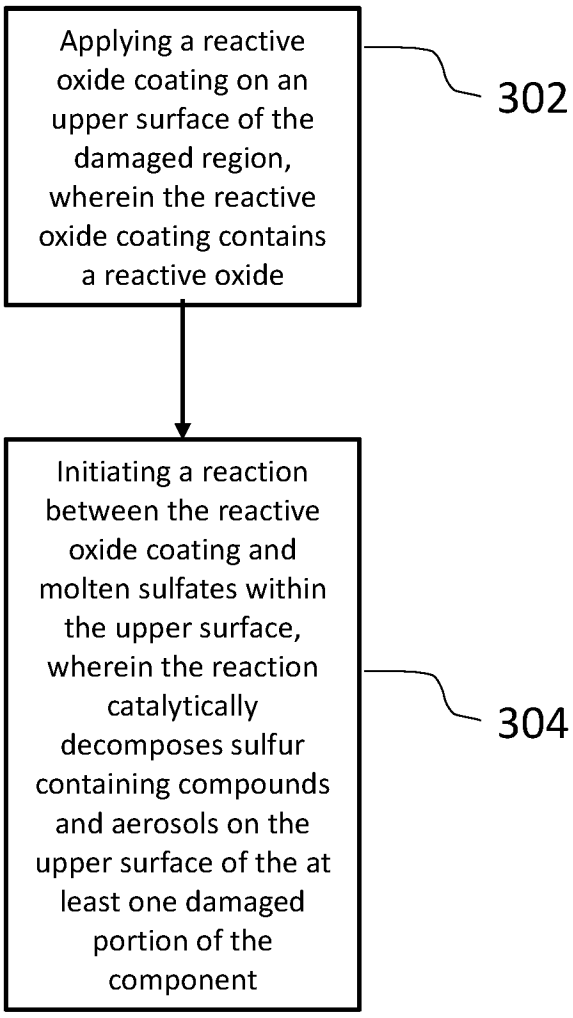

Applying a reactive oxide coating on an upper surface of the damaged region, wherein the reactive oxide coating contains a reactive oxide
302
Initiating a reaction between the reactive oxide coating and molten sulfates within the upper surface, wherein the reaction catalytically decomposes sulfur containing compounds and aerosols on the upper surface of the at least one damaged portion of the component
304

FIG. 3

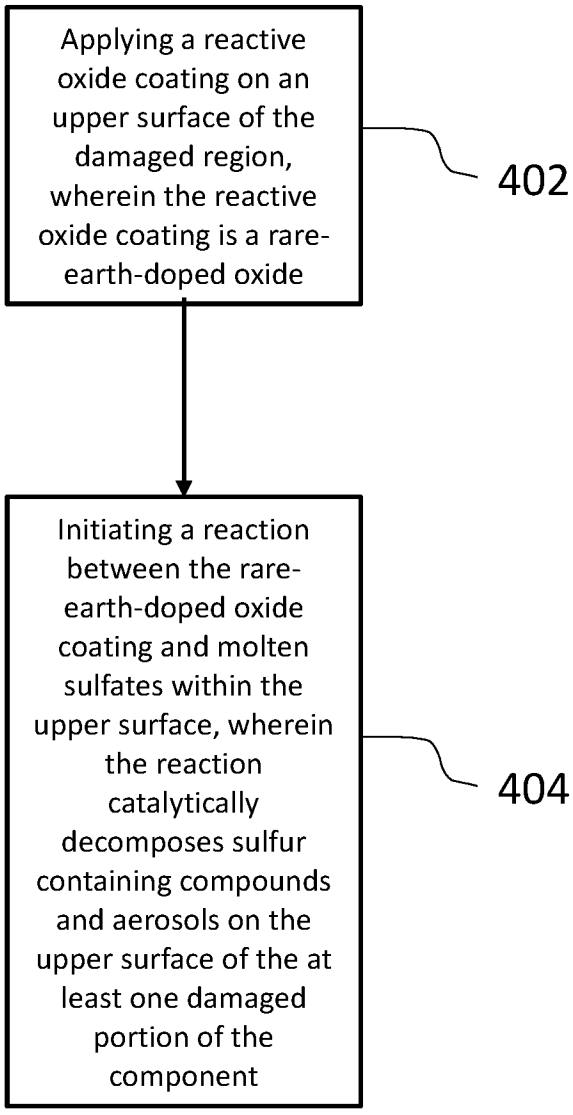

Applying a reactive oxide coating on an upper surface of the damaged region, wherein the reactive oxide coating is a rare-earth-doped oxide
402
Initiating a reaction between the rare-earth-doped oxide coating and molten sulfates within the upper surface, wherein the reaction catalytically decomposes sulfur containing compounds and aerosols on the upper surface of the at least one damaged portion of the component
404

FIG. 4

FIG. 5

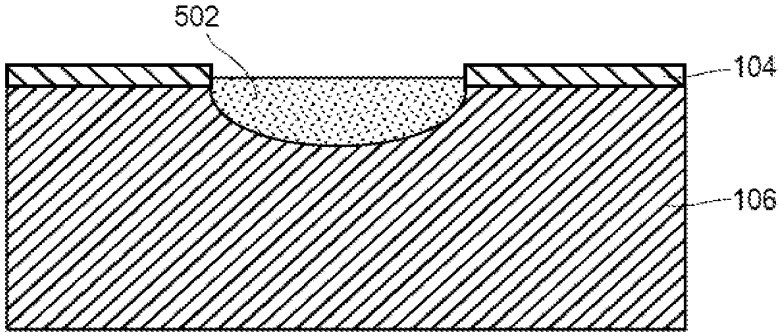


FIG. 6

