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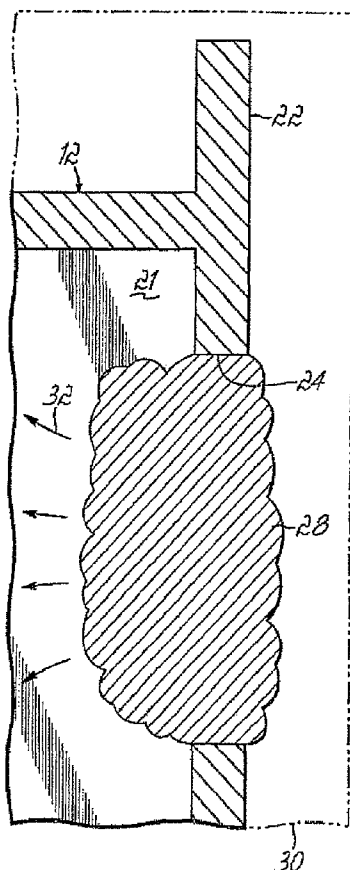
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(54) Title: METHODS OF USING HALOGEN-CONTAINING ORGANIC COMPOUNDS TO REMOVE DEPOSITS FROM INTERNAL SURFACES OF TURBINE ENGINE COMPONENTS



(57) Abstract: Methods for cleaning surface deposits (26), such as sulfidation deposits or dust particles, from a surface (21) bounding an internal passage (20) in a turbine engine component (10). The surface deposits (26) are cleaned by placing a substance (28) including halogen-containing organic compound, such as a fluorine-containing organic compound, into the internal passage (20) and heating the component (10) and the substance (28) to chemically react the halogen-containing species in the liquefied and boiling organic compound with the deposits (26). The temperature is further elevated to vaporize the chemically-modified deposits, which are moved by mass transport through the internal passage (21) and out of the turbine engine component (10). An optional protective coating (34), such as a chromium or aluminum coating, may be applied to the cleaned surface (21) of the internal passage (20).

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