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(54) Title: A FILM OF RARE EARTH METAL OXIDE ON A SURFACE OF A SUBSTRATE

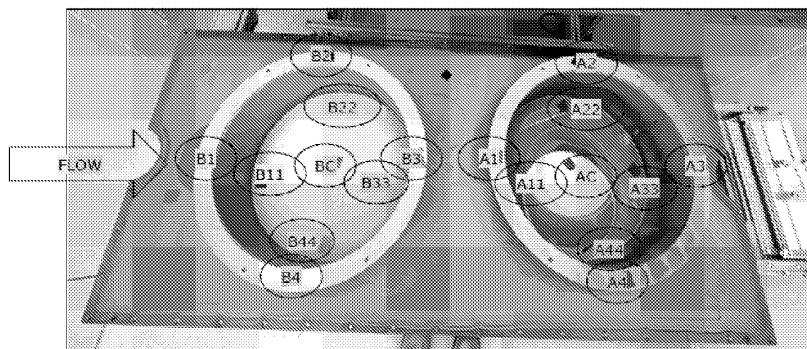


Fig. 1

(57) Abstract: A method for producing a film of rare earth metal oxide on a surface of a substrate is disclosed. The method comprises, in a reaction space, in any order the alternating steps of: a) exposing a deposition surface to an alcohol-based precursor for oxygen such that at least a portion of said alcohol-based precursor for oxygen gets adsorbed onto the deposition surface of the substrate, and subsequently purging the deposition surface with an inert gas for a first period of time of 1 - 180 seconds; and b) exposing a deposition surface to a precursor for rare earth metal such that at least a portion of said precursor for rare earth metal gets adsorbed onto the deposition surface of the substrate, and subsequently purging the deposition surface with an inert gas for a second period of time. Further is disclosed the use of the method.



WO 2024/256745 A1