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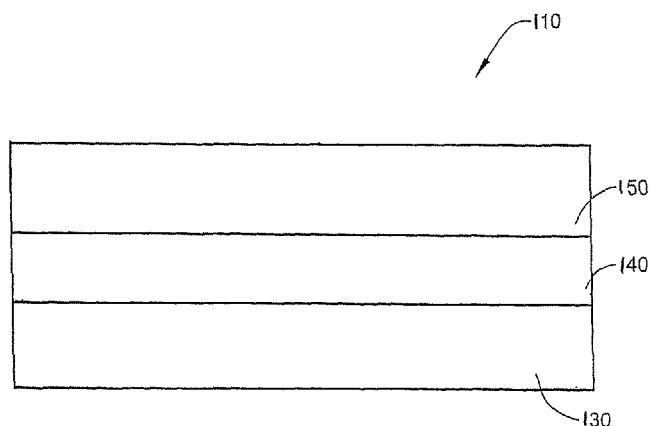
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(54) Title: METHOD FOR MAKING ORIENTED TANTALUM PENTOXIDE FILMS

Fig. 2



(57) Abstract: Methods of forming an oxide are disclosed and include contacting a ruthenium-containing material (130) with a tantalum-containing precursor and contacting the ruthenium-containing material with a vapor that includes water and optionally molecular hydrogen (H₂). Articles including a first crystalline tantalum pentoxide (140) and a second crystalline tantalum pentoxide (150) on at least a portion of the first crystalline tantalum pentoxide, wherein the first tantalum pentoxide has a crystallographic orientation that is different than the crystallographic orientation of the second crystalline tantalum pentoxide, are also disclosed.