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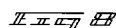
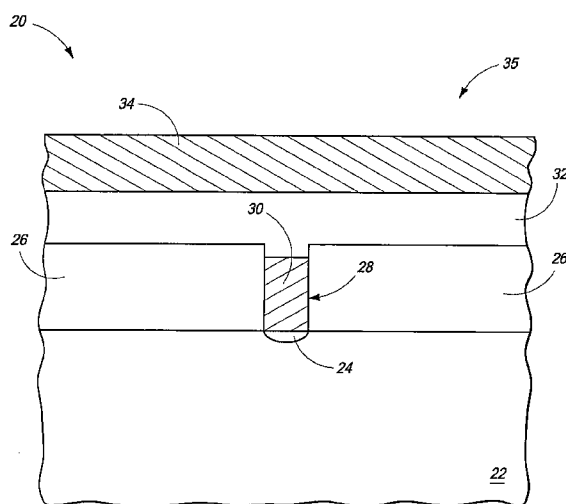
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(54) Title: METHODS OF FORMING A TELLURIUM ALKOXIDE AND METHODS OF FORMING A MIXED HALIDE-ALKOXIDE OF TELLURIUM



(57) Abstract: A method of forming a tellurium alkoxide includes providing a tellurium halide and a non-tellurium alkoxide in a liquid organic solvent. The liquid organic solvent has less moles of alcohol, if any, than moles of tellurium halide in the liquid organic solvent. The tellurium halide and the non-tellurium alkoxide within the liquid organic solvent are reacted to form a reaction product halide and a tellurium alkoxide. The liquid organic solvent is removed from the reaction product halide and the tellurium alkoxide to leave a liquid and/or solid mixture comprising the reaction product halide and the tellurium alkoxide. The mixture is heated effective to gasify the tellurium alkoxide from the reaction product halide. Other implementations are disclosed, including methods of forming a mixed halide-alkoxide of tellurium.