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[54] ENERGETIC PLASTICIZER AND IMPROVED GAS PRODUCING CHARGES

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[58] Field of Search 149/88, 96, 98, 102, 149/97, 108, 104

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[57] ABSTRACT

An energetic plasticizer for double base propellants comprising (1) a mixture of sorbitol tetra-,penta-, and hexa-nitrate (MSN) and (2) a polyolpolynitrate selected from the group consisting of diethyleneglycoldinitrate (DEGDN), triethyleneglycoldinitrate (TEGDN), nitroglycerin (NG) and mixtures thereof. Also included are compound formulations for double base, modified double base, and composite modified double base propellants incorporating the above energetic plasticizer.

18 Claims, No Drawings