

Title (en)

METHOD AND APPARATUS FOR THRUST COMPRISING A LIQUID OXIDANT AND A SOLID PROPELLANT

Title (de)

VERFAHREN UND VORRICHTUNG FÜR EINEN ANTRIEB MIT FLÜSSIGEM OXIDATIONSMITTEL UND EINEM FESTOFF-TREIBSTOFF

Title (fr)

PROCÉDÉ ET DISPOSITIF DE PROPULSION COMPRENANT UN LIQUIDE OXYDANT ET UN COMPOSÉ SOLIDE

Publication

**EP 2516324 A1 20121031 (FR)**

Application

**EP 10810862 A 20101221**

Priority

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- FR 2010052848 W 20101221

Abstract (en)

[origin: WO2011083252A1] One subject of the present invention is a propulsion method comprising: the injection of at least one liquid oxidant (OX) and hydrogen (H<sub>2</sub>) into at least one combustion chamber (1); the combustion of said at least one liquid oxidant (OX) and hydrogen (H<sub>2</sub>) in said at least one combustion chamber (1) in order to generate combustion gases; and ejection of said combustion gases. Said method comprises, upstream of said injection: the generation of at least some of said hydrogen (H<sub>2</sub>), advantageously all of said hydrogen (H<sub>2</sub>), from at least one solid compound (5'); said generation from said at least one solid compound (51) comprising a combustion reaction between said at least one solid compound (51), chosen from alkali metal borohydrides, alkaline-earth borohydrides, borazane, polyaminoboranes and mixtures thereof, and an oxidizing charge (5"). Another subject of the present invention is also a propulsion device suitable for implementing said method.

IPC 8 full level

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Citation (search report)

See references of WO 2011083252A1

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