

Title (en)
SILICON OR ELEMENTAL METALS AS ENERGY CARRIERS

Title (de)
SILIZIUM ODER ELEMENTARE METALLE ALS ENERGIETRÄGER

Title (fr)
SILICIUM OU MÉTAUX ÉLÉMENTAIRES COMME SOURCES D'ÉNERGIE

Publication
EP 2367752 A1 20110928 (DE)

Application
EP 09748818 A 20091113

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Abstract (en)
[origin: WO2010069685A1] A process for providing storable and transportable energy carriers (103, 104) is described. In one step, a transformation of silicon dioxide-containing or metal oxide-containing starting material (101) into silicon (103) or metal takes place in a reduction process (105), with the primary energy for this reduction process (105) being provided from a renewable energy source. Part of the reaction products (102) of the reduction process (105) is then used in a process (106) for producing methanol, with synthesis gas (110) composed of carbon monoxide and hydrogen being used in this process (106) for producing methanol.

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