

Title (en)
METHOD FOR COATING A COMPONENT

Title (de)
VERFAHREN ZUR BESCHICHTUNG EINES BAUTEILS

Title (fr)
PROCÉDÉ DE REVÊTEMENT DE COMPOSANT

Publication
EP 4055204 A1 20220914 (DE)

Application
EP 19800914 A 20191106

Priority
EP 2019000305 W 20191106

Abstract (en)
[origin: WO2021089102A1] The invention relates to a method for coating a component, wherein the method comprises the following steps: - providing a gas phase, which contains at least one tetra-alkoxy silane as first silicon-containing precursor, at least one functionalised silicic acid ester with a phenyl, vinyl, allyl, thiol, amino, acryloxy, epoxy, nitrile, isocyanate, isothiocyanate or methacrylate group as second silicon-containing precursor, at least one catalyst, water and inert gas, optionally hydrogen, or consists of these substances, the silicon-containing precursors being added in metered fashion to the gas phase separately from one another and separately from the water and the catalyst, - chemically reacting the first silicon-containing precursor with water in the gas phase so as to form first reaction products, - chemically reacting the second silicon-containing precursor with water in the gas phase so as to form second reaction products, - depositing the reaction products on the component, the reaction products of all precursors together forming a coating on the component based on amorphous silicon dioxide.

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C23C 16/40 (2006.01)

CPC (source: EP US)
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