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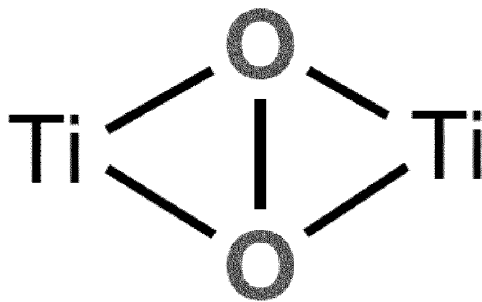
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(54) Title: CATALYST MOLDING FOR HYDROGEN PEROXIDE ACTIVATION

Figure 1



(57) **Abstract:** The present invention relates to a catalyst molding for hydrogen peroxide activation, wherein the catalyst molding comprises a titanosilicate catalyst for hydrogen peroxide activation, said catalyst comprising Ti, Si, and O, wherein the catalyst comprised in the catalyst molding displays a water adsorption (W), a concentration (C) of bridging $\mu^2\eta^2$ -peroxo species per Ti in the H_2O_2 -activated catalyst as determined by quantitative ^{17}O NMR spectroscopy, and a specific activation factor (A) according to formula (I), wherein in accordance with formula (I), the activation factor is the multiplication product of the water adsorption and the concentration of bridging $\mu^2\eta^2$ -peroxo species per Ti in the H_2O_2 -activated catalyst: $A = W \times C$ (I). The present invention further relates to a method for the preparation of a catalyst molding and a catalyst molding obtainable or obtained by said method. Yet further, the present invention relates to a process for the activation of hydrogen peroxide, and to the use of the inventive catalyst molding in a reaction involving one or more of C-O bond formation, C-C bond formation and C-C bond conversion.

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WO 2024/245592 A1

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