

Title (en)  
CONTINUOUS PRODUCTION OF ORGANOSILANES

Title (de)  
KONTINUIERLICHE HERSTELLUNG VON ORGANOSILANEN

Title (fr)  
PRODUCTION CONTINUE D'ORGANOSILANES

Publication  
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Application  
**EP 03735613 A 20030612**

Priority  
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• EP 0306204 W 20030612

Abstract (en)  
[origin: DE10232663C1] Continuous production of (cyclo)alkylsilanes (I) comprises continuous reaction of the corresponding tri-substituted-silylhydride (II) with a (cyclo)alkene (III) in the presence of a bis(chloro-iridium-diene) compound (IV) as catalyst and free diene as cocatalyst at 30-200 degreesC and 0.11-50.0 MPa. Continuous production of (cyclo)alkyl-silanes (I) comprises continuous reaction of the corresponding tri-substituted-silyl hydride (II) with a (cyclo)alkene (III) in the presence of a bis(chloro-iridium-diene) compound (IV) as catalyst and free diene as cocatalyst at 30-200 degreesC and 0.11-50.0 MPa. R<sub>6</sub>R<sub>5</sub>CH-CH(R<sub>4</sub>)-SiR<sub>1</sub>R<sub>2</sub>R<sub>3</sub> (I) HSiR<sub>1</sub>R<sub>2</sub>R<sub>3</sub> (II) R<sub>6</sub>R<sub>5</sub>C=CHR<sub>4</sub> (III) ((Diene)IrCl)<sub>2</sub> (IV) R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> = 1-18 C (halo)hydrocarbyl, chlorine or 1-18 C alkoxy; R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub> = H, 1-18 C hydrocarbyl (optionally substituted by F, Cl, OR, NR<sub>2</sub>, CN or NCO), Cl, F or 1-18 C alkoxy or 2 of these groups and the attached C atom(s) form a cyclic group; R = H or 1-18 C hydrocarbyl; Diene = a 4-50 C hydrocarbon compound with at least 2 C=C double bonds, optionally substituted by F, Cl, OR, NH<sub>2</sub>, CN or NCO.

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