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(54) Title: DIRECT EPOXIDATION PROCESS USING A PALLADIUM ON NIOBIUM-CONTAINING SUPPORT

(57) Abstract: The invention is a liquid-phase process for epoxidizing an olefin with hydrogen and oxygen in the presence of a supported catalyst comprising palladium on niobium-containing support. The process exhibits good productivity and selectivity for olefin epoxidation with hydrogen, and oxygen. This is particularly surprising because typical palladium-containing epoxidation catalysts require the presence of a titanium zeolite.



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