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(54) Title: DIRECT EPOXIDATION PROCESS USING A MIXED CATALYST SYSTEM

(57) Abstract: The invention is a liquid-phase process for epoxidizing an olefin with hydrogen and oxygen in the presence of a catalyst mixture comprising a titanium zeolite and a supported catalyst comprising palladium on niobium-containing support. The process is highly selective and productive for transforming olefins to epoxides in the liquid-phase reaction of an olefin, hydrogen, and oxygen.



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