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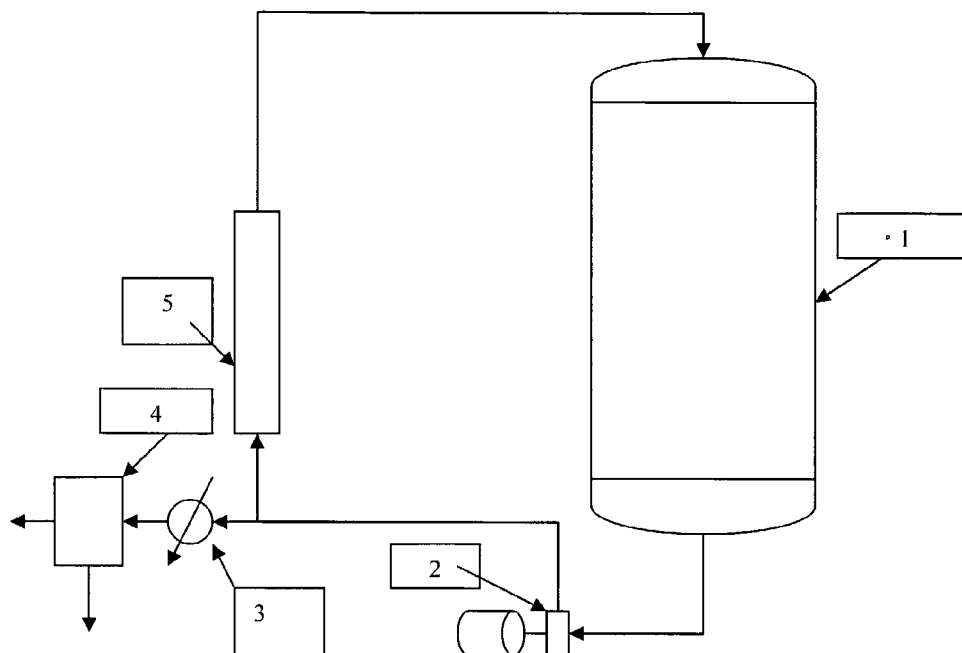
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[Continued on next page]

(54) Title: HYDRO-OXIDATION OF HYDROCARBONS USING CATALYST PREPARED BY MICROWAVE HEATING



(57) Abstract: A process and hydro-oxidation catalyst for the hydro-oxidation of a hydrocarbon, preferably a C₃₋₈ olefin, such as propylene, by oxygen in the presence of hydrogen to the corresponding partially-oxidized hydrocarbon, preferably, a C₃₋₈ olefin oxide, preferably, propylene oxide. The catalyst comprises gold, silver, one or more platinum group metals, one or more lanthanide rare earth metals, or a mixture thereof, deposited on a titanosilicate, preferably TS-1 characterized in that titanosilicate is prepared by microwave heating.

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