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(71) Applicant *(for all designated States except US)*: **SHELL OIL COMPANY** [US/US]; Department of Intellectual Property, One Shell Plaza, P.O. Box 2463, Houston, TX 77252-2463 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **LOCKEMEYER, John, Robert** [US/US]; 3403 Stoney Mist Drive, Sugar Land, TX 77479 (US). **REINALDA, Donald** [NL/NL]; Badhuisweg 3, NL-1031 CM Amsterdam (NL). **YEATES, Randall, Clayton** [US/US]; 16310 Maple Downs Lane, Sugar Land, TX 77478 (US).

(74) Agent: **LEMUTH, Richard, F.**; Shell Oil Company, One Shell Plaza, P.O. Box 2463, Houston, TX 77252-2463 (US).

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(54) Title: A METHOD FOR IMPROVING THE SELECTIVITY OF A CATALYST AND A PROCESS FOR THE EPOXIDATION OF AN OLEFIN

(57) Abstract: A method for improving the selectivity of a supported highly selective epoxidation catalyst comprising silver in a quantity of at most 0.19 g per m^2 surface area of the support, which method comprises - contacting the catalyst, or a precursor of the catalyst comprising the silver in cationic form, with a feed comprising oxygen at a catalyst temperature above 250 °C for a duration of up to 150 hours, and - subsequently decreasing the catalyst temperature to a value of at most 250 °C; and a process for the epoxidation of an olefin, which process comprises - contacting a supported highly selective epoxidation catalyst comprising silver in a quantity of at most 0.19 g per m^2 surface area of the support, or a precursor of the catalyst comprising the silver in cationic form, with a feed comprising oxygen at a catalyst temperature above 250 °C for a duration of up to 150 hours, and - subsequently decreasing the catalyst temperature to a value of at most 250 °C and contacting the catalyst with the feed comprising the olefin and oxygen.

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