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(71) Applicant: ARCO CHEMICAL TECHNOLOGY, L.P. [US/US]; Two Greenville Crossing, 4001 Kennett Pike, Suite 238, Greenville, DE 19807 (US).

(72) Inventors: GREY, Roger, A.; 111 Piedmont Road, West Chester, PA 19382 (US). KAMINSKY, Mark, P.; 562 Spring Hollow Lane, Media, PA 19063 (US).

(74) Agents: CARROLL, Kevin, M. et al.; Lyondell Chemical Company, 3801 West Chester Pike, Newtown Square, PA 19073 (US).

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(54) Title: CATALYST REGENERATION PROCESS

(57) Abstract: Used noble metal-containing titanium zeolite catalysts, that have been employed in the liquid-phase epoxidation of olefins with hydrogen and oxygen in the presence of a buffer, are regenerated by heating the used catalyst at a temperature of at least 250 °C in the presence of a oxygen-containing gas stream, followed by reduction at a temperature of at least 20 °C in the presence of a hydrogen-containing gas stream to form a reactivated catalyst.