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(54) Title: PROPYLENE OXIDE PROCESS USING ALKALINE EARTH METAL COMPOUND-SUPPORTED SILVER CATALYSTS CONTAINING TUNGSTEN AND POTASSIUM PROMOTERS

(57) Abstract

Direct oxidation of propylene to propylene oxide is accomplished using alkaline earth metal compound-supported silver catalysts containing tungsten and potassium promoters. In one embodiment of the invention, the tungsten promoter and the potassium promoter are simultaneously introduced through the use of potassium tungstate. Catalysts of this type exhibit unusually high propylene oxide productivity when carbon dioxide is present in the feedstream.