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(54) Title: ACROLEIN AND/OR ACRYLIC ACID PRODUCTION FROM PROPYLENE WITH REDUCED AMOUNT OF HIGH BOILING POINT BYPRODUCTS

(57) Abstract: A reactor for producing acrolein and/or acrylic acid from propylene comprises an inlet for propylene to enter the reactor, an outlet for reaction products to exit the reactor, and a catalyst bed disposed between the inlet and the outlet. The catalyst bed comprises a molybdenum and bismuth based mixed oxide catalyst. The catalyst closest to the inlet of the reactor, CAT_{inlet}, produces a lower amount of maleic anhydride to the total amount of acrolein and acrylic acid compared to the catalyst closest to the outlet of the reactor, CAT_{outlet}.



WO 2024/072761 A1