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(54) Title: (METH)ACROLEIN AND/OR (METH)ACRYLIC ACID PRODUCTION WITH REDUCED AMOUNT OF HIGH BOILING POINT BYPRODUCT

(57) Abstract: A reactor for producing (meth)acrolein and/or (meth)acrylic acid from a reactant selected from propylene, isobutylene and tert-butanol. The reactor comprises an inlet for the reactant 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 has a molar ratio of bismuth to molybdenum that is lower than the catalyst closest to the outlet of the reactor.



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