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(54) Title: IMPROVED PROCESS OF DEHYDRATION REACTIONS

(57) Abstract: The present invention relates to the production of acrolein, acrylic acid or methacrylic acid by dehydration reaction of renewable raw material such as glycerin or hydroxycarboxylic acids, in the presence of a novel catalyst system supported on a carrier having a bimodal structure and a high pore volume and distribution. The dehydration reactions can be carried out for longer operation duration, so that acrolein, acrylic acid or methacrylic acid can be produced at higher productivity and for longer running time.

