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(54) **MULTIHYDRIC COMPOUND DEHYDRATION SYSTEMS, CATALYST COMPOSITIONS, AND METHODS**

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See application file for complete search history.

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(57) **ABSTRACT**

The present disclosure relates to facilities, systems, methods and/or catalysts for use in chemical production. In particular, the disclosure provides innovations relating to dehydration of multihydric compounds such as glycerol to form acrolein. Some of these innovations include continuous reaction systems as well as system parameters that allow for long term production.

9 Claims, 28 Drawing Sheets