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 AIR PRODUCTS & CHEM INC *EP -363-802-A
 11.10.88-US-255935 (18.04.90) C07c-29/15 C07c-31/04
 High volumetric prodn. of methanol in liq. phase reactor using
 catalyst slurry comprising powdered copper contg. catalyst
 C90-051527 R(BE DE ES FR GB IT NL SE)

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reactor performance and allowing higher catalyst slurry
 concns. Reactor productivity is optimised by controlling
 gas holding giving improved reactor efficiency while
 providing fast, inexpensive on-line control of the reactor.
 (10pp-R11DwgNo0/3)
 (E) ISR: No Search Report.

Prepn. of alkanols, partic. MeOH, as a product, co-
 product or intermediate in a liq. phase reactor comprises
 feeding a gas contg. H_2 and carbon oxides in the presence
 of a catalyst slurry comprising a solid phase catalyst
 suspended in a liq. solvent under sufficient temp. and
 pressure to effect reaction between the H_2 and carbon
 oxides to form the alkanol.

Reactor volumetric productivity is maximised by (a)
 using a catalyst slurry having greater than 25 wt% of a
 powdered Cu-contg. catalyst of 30-70%, and (b) passing
 the feed gas into the slurry such that gas hold-up is
 maintained at 14-26%.

USE/ADVANTAGE

High prodn. of MeOH slurries made from the above
 catalyst have low viscosity and yield stress, improving

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