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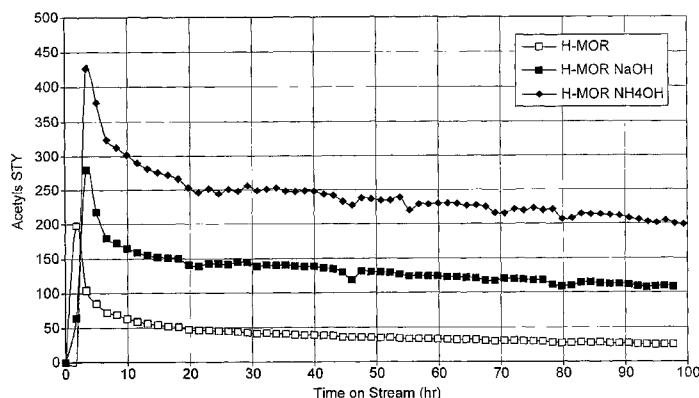


FIG. 1

(57) Abstract: A process for the production of at least one carbonylation product selected from acetic acid and methyl acetate by carbonylating at least one carbonylatable reactant selected from methanol and reactive derivatives thereof with carbon monoxide in the presence of a catalyst which is a mordenite which has been treated with an aqueous ammonium hydroxide solution and has a silica : alumina molar ratio of at least 10 : 1.