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 12/890,383 24 September 2010 (24.09.2010) US</p> <p>(71) Applicant (<i>for all designated States except US</i>):
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(54) Title: PUMP AROUND REACTOR FOR PRODUCTION OF ACETIC ACID

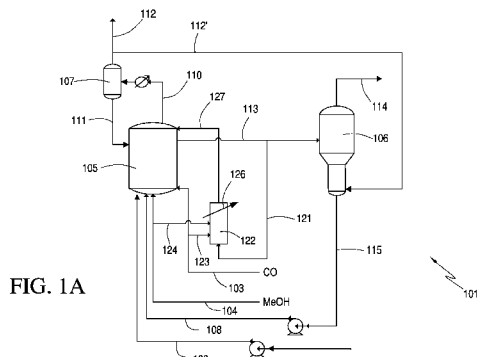


FIG. 1A

(57) Abstract: The present invention relates to improved processes for the manufacture of acetic acid. A pump around reactor is used to produce additional heat for the production of steam. The pump around reactor receives a portion of the reaction solution produced by the carbonylation reactor and further reacts that portion with additional carbon monoxide and/or reactants.

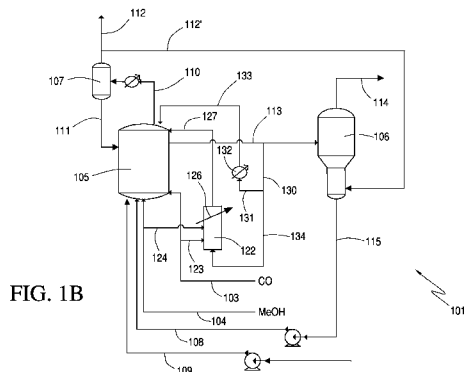


FIG. 1B



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