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(54) Title: POLYPHOSPHATES AND POLYPHOSPHONATES AS RATE PROMOTERS FOR THE GLACIAL ACETIC ACID PROCESS

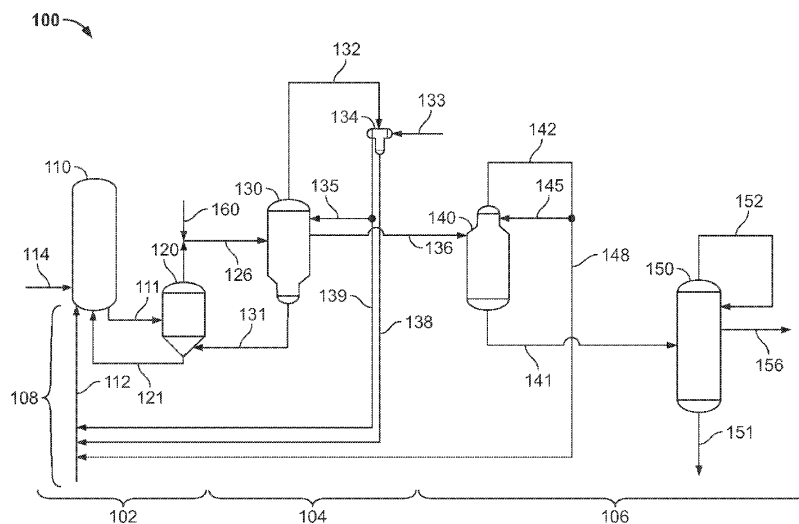


FIG. 1

(57) Abstract: A process for producing and recovering acetic acid in an acetic acid production system is disclosed, the process comprising contacting methanol, methyl acetate, or a mixture of the two, and carbon monoxide in the presence of a reaction mixture comprising iodide under carbonylation conditions sufficient to form acetic acid. The reaction mixture comprises a carbonylation catalyst, water, and one or more promoters selected from the group consisting of Group I and Group II polyphosphate and polyphosphonate salts and mixtures thereof. An aspect of the process includes a method for reducing water in the acetic acid production process.

[Continued on next page]

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