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(71) Applicant: LYONDELLBASELL ACETYL, LLC

Applicant: ~~XXXXXXXXXXXX~~ ACETES, LLC
[US/US]; 1221 McKinney Street, Suite 300, Houston, TX
77010 (US).

(72) **Inventor:** HALLINAN, Noel, C.; C/o Lyondellbasell IP

Legal Dept., 1221 McKinney Street, Suite 300, Houston, TX 77010 (US).

(74) Agent: **STREETER, Leslie** et al.; Lyondellbasell. 1221

Mckinney Street, Suite 300, Houston, TX 77010 (US).

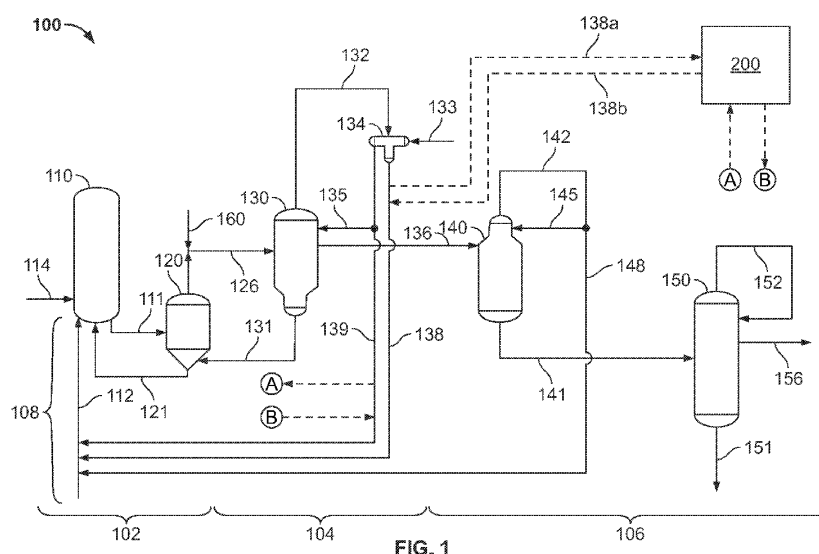
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(54) Title: REMOVAL OF ALDEHYDES IN ACETIC ACID PRODUCTION



(57) **Abstract:** Processes for producing carboxylic acid are included herein. The processes include contacting methanol and carbon monoxide in the presence of a liquid reaction medium under carbonylation conditions sufficient to form a carbonylation product comprising acetic acid and acetaldehyde. At least a portion of the carbonylation product or a derivative thereof is contacted with a phyllosilicate clay-based adsorbent at adsorption conditions sufficient to selectively reduce a concentration of acetaldehyde present in the carbonylation product or a derivative thereof.

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