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(54) Title: OZONOLYSIS PROCESS AND SAFETY SYSTEM FOR AN OZONE ABSORBER COLUMN

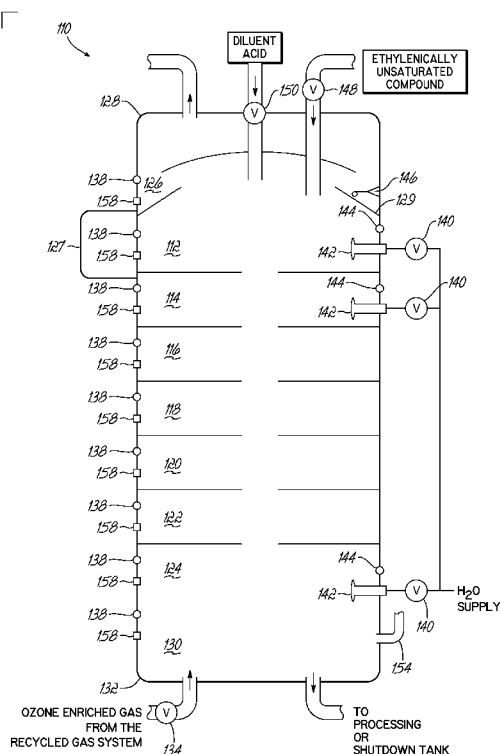


FIG. 2

(57) Abstract: Described herein are improved processes and systems for producing a carboxylic acid mixture that includes a saturated mono carboxylic acid and a saturated dicarboxylic acid. The process includes generating an ozone enriched gas in an ozone generator and introducing the ozone enriched gas to an absorber column no. There, the ozone enriched gas is contacted with an unsaturated carboxylic acid feed in the absorber to form an ozonide. The ozonide is contacted with an oxygen enriched gas in a reactor to obtain the carboxylic acid mixture. The carboxylic acid mixture is optionally purified. The process further includes a safety system that monitors operating conditions of the absorber column no and responds to those conditions which are able to disrupt the formation of ozonide or generate other materials capable of causing a safety risk should the operating conditions exceed a threshold value.



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