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- (71) **Applicant:** EXXONMOBIL CHEMICAL PATENTS INC. [US/US]; 5200 Bayway Drive, Baytown, TX 77520-2101 (US).
- (72) **Inventors:** DAVIS, Jason, D.; 9531 Bearden Creek, Humble, TX 77396 (US). BECKER, Christopher, L.; 3109 Driftwood Dr., Manhattan, KS 66503 (US). REINE, Travis, A.; 84 Doubloon Drive, Slidell, LA 70816 (US). PATEL, Bryan, A.; 786 N. Vermont St., Arlington, VA 22203 (US).
- (74) **Agents:** CHEN, Siwen et al.; Exxonmobil Chemical Company, Law Technology, P.O. Box 2149, Baytown, TX 77522-2149 (US).
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Declarations under Rule 4.17:

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(54) **Title:** PROCESS FOR CONCENTRATING A MIXTURE CONTAINING ORGANIC HYDROPEROXIDE

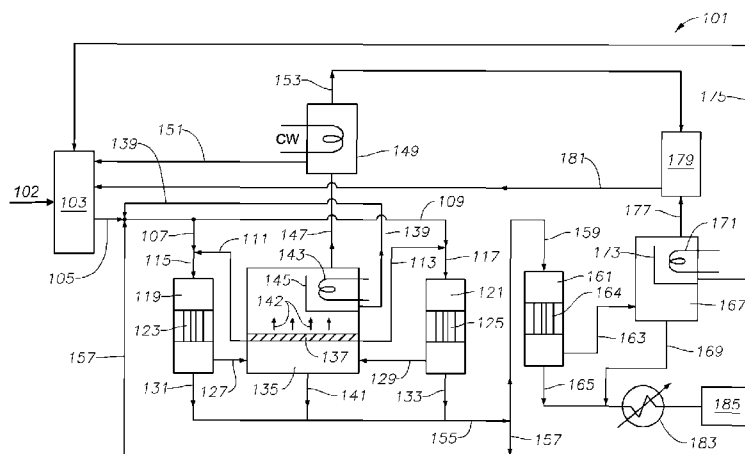


FIG. 1

(57) **Abstract:** Method for concentrating an organic hydroperoxide mixture comprising a hydrocarbon and a hydroperoxide corresponding thereto comprises evaporating a first liquid mixture in a thin-film evaporation device followed by separation in a separation zone. Both the evaporation device and the separation zone operate at a low absolute pressure at a temperature lower than the thermal degradation temperature of the hydroperoxide to prevent thermal decomposition thereof. The process is particularly useful for concentrating an oxidation product made from the oxidation of cyclohexylbenzene.