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(71) Applicant: **EXXONMOBIL CHEMICAL PATENTS INC.** [US/US]; 5200 Bayway Drive, Baytown, TX 77520-2101 (US).

(72) Inventors: **NAIR, Hari**; 3616 Richmond Avenue, Apt 1605, Houston, TX 77046 (US). **BECKER, Christopher**,

L.; 3109 Driftwood Dr., Manhattan, KS 66503 (US). **DAVIS, Jason, D.**; 9531 Bearden Creek, Humble, TX 77396 (US). **SMITH, Charles, Morris**; 2402 Milam, Apt. 4319, Houston, TX 77006 (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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(54) Title: PROCESS FOR PRODUCING PHENOL AND/OR CYCLOHEXANONE

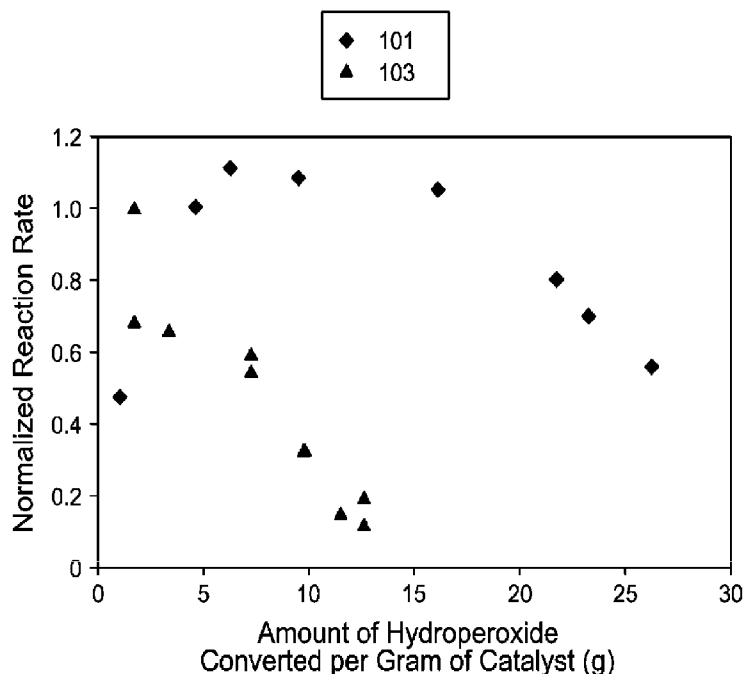


FIG. 1

(57) Abstract: In a process for producing phenol and/or cyclohexanone, cyclohexylbenzene is contacted with an oxygen-containing gas in the presence of an oxidation catalyst under oxidation conditions effective to produce an oxidation effluent comprising cyclohexylbenzene hydroperoxide. At least a portion of the oxidation effluent is then subjected to a concentrating step to produce a cleavage feed having a higher concentration of cyclohexylbenzene hydroperoxide than the oxidation effluent. A cleavage reaction mixture comprising the cleavage feed is then contacted with a solid acid catalyst in a cleavage reaction zone under conditions effective to produce a cleavage product comprising phenol and cyclohexanone.



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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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