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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). POUCHER, Ashley, J.; 3299 Maxroy Street, Houston, TX 77008 (US). WEBER, Jörg, F.W.; 730 Tulane Street, Unit A, Houston, TX 77007 (US). WATTS, Jonathan, J.; 4415 Rose Street, Unit C, Houston, TX 77007 (US). BECKER, Christopher, L.; 3109 Driftwood Dr., Manhattan, KS 66503 (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: CYCLOHEXYLBENZENE COMPOSITION

(57) Abstract: Disclosed is a composition cyclohexylbenzene composition comprising cyclohexylbenzene at a concentration of C(CHB) wt% and methylcyclopentylbenzene at a concentration of C(MCPB) ppm, where the percentage and ppm are based on the total weight of the cyclohexylbenzene composition, $C(\text{CHB}) > 95.00$, and $0.001 \leq C(\text{MCPB}) \leq 5000$. This composition is advantageous when the cyclohexylbenzene is subjected to an oxidation step, leading to a decreased amount of methylcyclopentanone contaminants, as well methylcyclopentanone by-products produced in the cleavage step, in the final product.

