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

(72) Inventors: **PATEL, Bryan, A.**; 277 Third St., Apt. 2, Jersey City, NJ 07302 (US). **WEBER, Michael, W.**; 13807 Greenwood Lane South, Houston, TX 77044 (US). **SMI-**

LEY, Randolph, J.; 1835 Viola Lane, Hellertown, PA 18055 (US). **UPPILI, Sundararajan**; 8501 Wyndham Court, Jersey Village, TX 770040 (US). **MADUSKAR, Saurabh, S.**; 3 Hermann Museum Circle Drive, Apt. 4402, Houston, TX 77004 (US).

(74) Agent: **GUICE, Chad, A.** et al.; ExxonMobil Chemical Company, Law Technology, P.O. Box 2149, Baytown, TX 77522-2149 (US).

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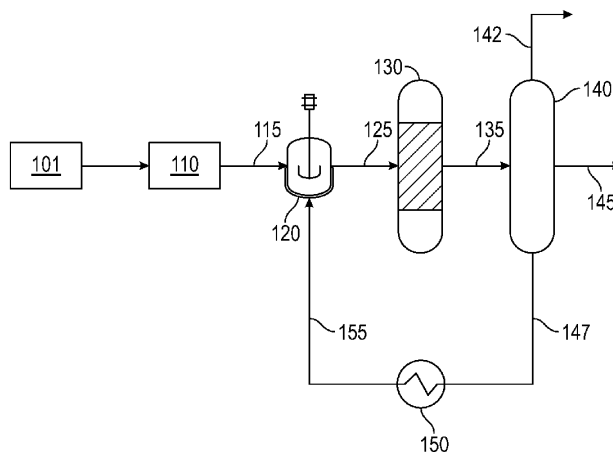


FIG. 1

(57) Abstract: Systems and methods are provided for conversion of polymers (such as plastic waste) to olefins. The systems and methods can include a recycle loop so that a portion of the pyrolysis effluent can be combined with solid plastic feedstock. The input flow to the pyrolysis reactor can correspond to a slurry of plastic particles in recycled effluent or a solution of plastic in recycled effluent.

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