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(54) Title: PROCESSES AND SYSTEMS FOR MAKING RECYCLE CONTENT HYDROCARBONS THROUGH AN ETHYLENE FRACTIONATOR

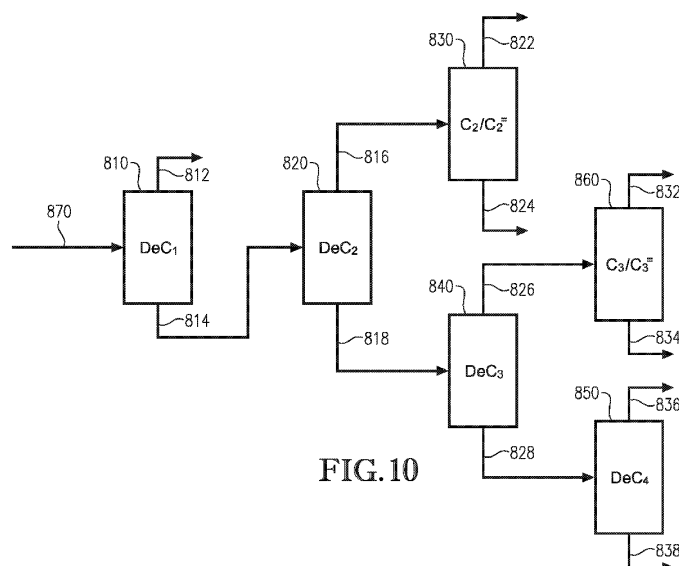


FIG. 10

(57) Abstract: Processes and systems for making recycle content hydrocarbons, including olefins, from recycled waste material. Recycle waste material may be pyrolyzed to form recycle content pyrolysis oil composition (r-pyoil), at least a portion of which may then be cracked to form a recycle content olefin composition (r-olefin). The r-olefin may then be further separated into product streams in a separation zone downstream of the cracker furnace. In some cases, presence of recycle content hydrocarbons may facilitate more efficient operation of one or more distillation columns in the separation zone, including the deethanizer and ethylene fractionator.

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