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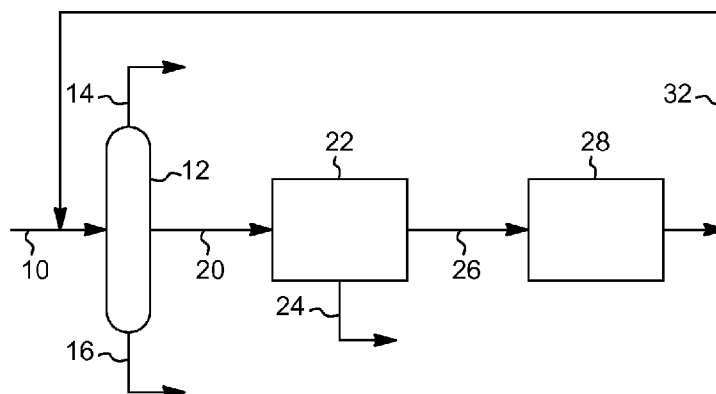
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(54) Title: SYSTEMS AND METHODS FOR PRODUCING DESIRED XYLENE ISOMERS

Fig. 1



(57) Abstract: Methods and systems are provided for producing a desired xylene isomer. The method includes adsorbing the desired xylene isomer from a mixed xylene stream in an adsorbent chamber. The desired xylene isomer is desorbed with a desorbent to produce an extract stream with the desired xylene isomer and the desorbent, where the desorbent has a lower boiling point than the desired xylene isomer. The extract stream is fractionated in an extract fractionator to produce a low pressure extract overhead stream with gaseous desorbent. The low pressure extract overhead stream is pressurized to produce a high pressure extract overhead stream with a temperature greater than an extract reboiler temperature. The high pressure extract overhead stream is condensed in an extract process reboiler, and produces a liquid extract overhead stream

