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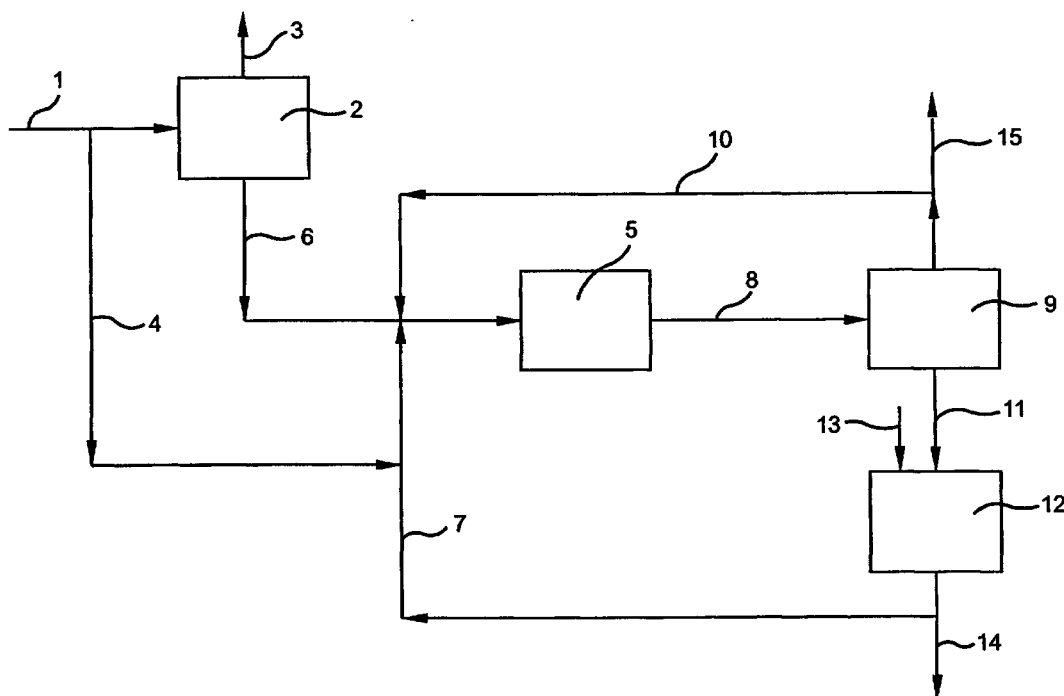
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(54) Title: SELECTIVE OLEFIN OLIGOMERIZATION



(57) Abstract: A gasoline blending fraction rich in isooctane is produced in a reactor (5) by the dimerization of isobutylene using tertiary butyl alcohol modifier and lower alkane diluent. Advantageously, the isobutylene is produced by dehydrating tertiary butyl alcohol in a dehydration zone (2).