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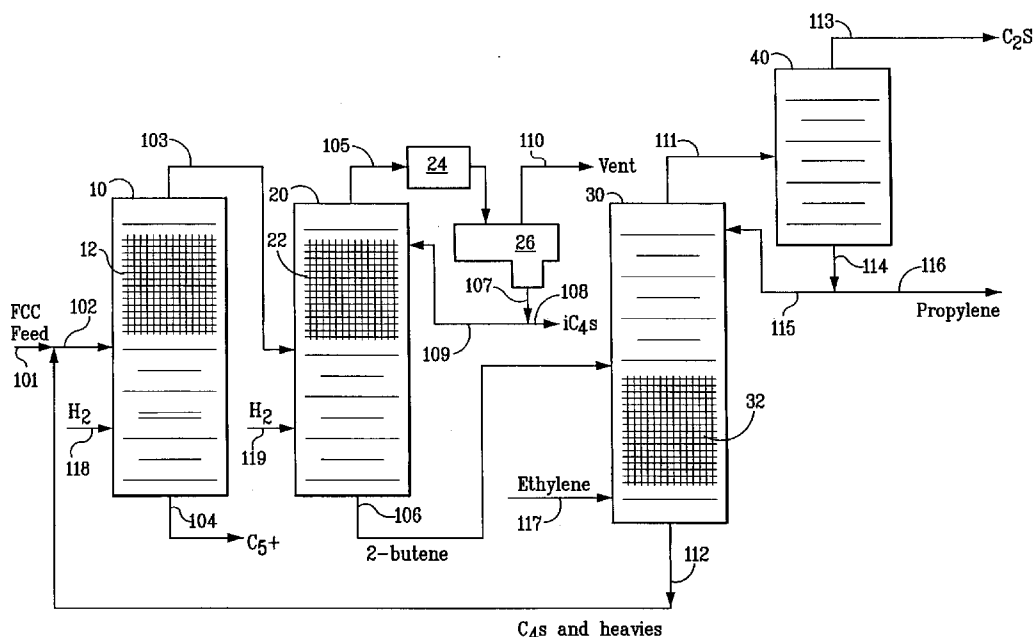
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(54) Title: OLEFIN METATHESIS



(57) Abstract: A process for the production of propylene from the metathesis of ethylene and 2-butene is disclosed wherein a mixed C₄ stream is first treated to enrich and separate the 2-butene from 1-butene and isobutene by isomerization of 1-butene and concurrent fractional distillation of the 2-butene and isobutene to provide the 2-butene feed the metathesis with ethylene. In addition the mixed C₄ stream may be treated to remove mercaptans and dienes prior to 2-butene enrichment.