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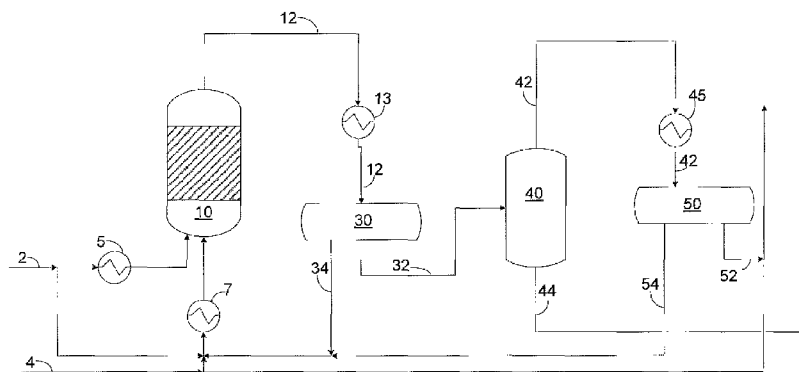
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(54) Title: METHOD FOR CONTEMPORANEOUSLY DIMERIZING AND HYDRATING A FEED HAVING BUTENE

FIG. 1



(57) Abstract: Methods for producing alcohols and oligomers contemporaneously from a hydrocarbon feed containing mixed butenes using an acid based catalyst are provided. Additionally, methods for producing fuel compositions having alcohols and oligomers prepared from mixed olefins are also provided as embodiments of the present invention, in certain embodiments, the catalyst can include a dual phase catalyst system that includes a water soluble acid catalyst and a solid acid catalyst.