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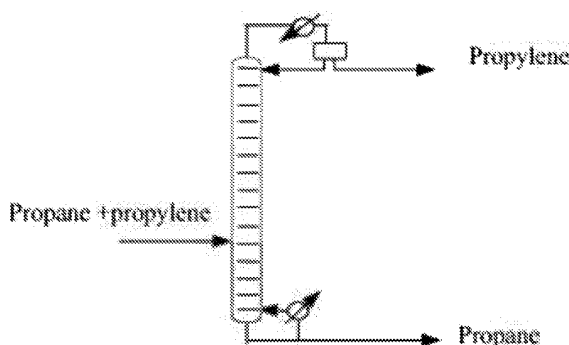


Fig:1

(57) Abstract: The present invention discloses a process for extractive distillation for separating one or more hydrocarbons from a gaseous mixture. Briefly, the process disclosed in the present invention provide a process for separation of propylene from propane in simplified manner to maximize the propylene stream purity with very low concentration of propane. The process disclosed in the present invention is cost effective having significantly lower operating and capital cost and leads to maximizing the recovery and recycle of acrylonitrile and minimize the acrylonitrile as contaminant in propane stream.



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