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(54) Title: PROCESS FOR PRODUCING CYCLOHEXYLBENZENE

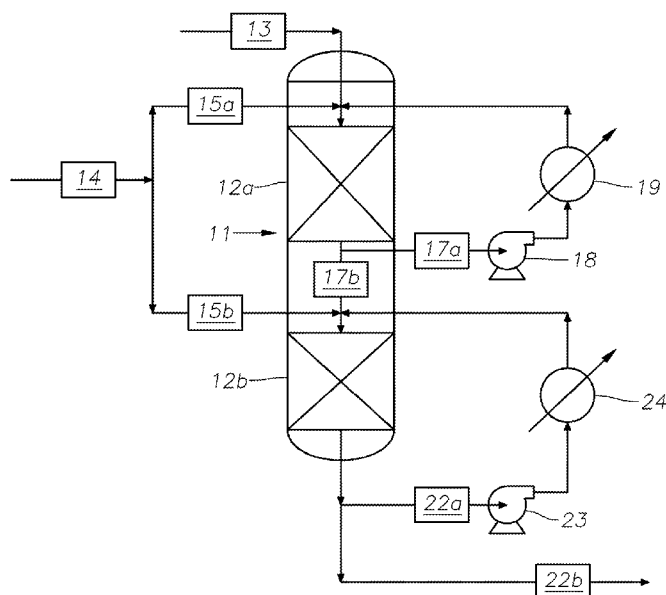


Fig. 1

(57) Abstract: In a process for producing cyclohexylbenzene, hydrogen and a liquid feed comprising benzene are introduced into a reaction zone and are contacted in the reaction zone under hydroalkylation conditions to produce cyclohexylbenzene. An effluent stream comprising cyclohexylbenzene and unreacted benzene is removed from the reaction zone and is divided into at least first and second portions, wherein the mass ratio of the effluent stream first portion to the effluent stream second portion is at least 2: 1. The effluent stream first portion is then cooled and the cooled effluent stream first portion is recycled to the reaction zone.



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