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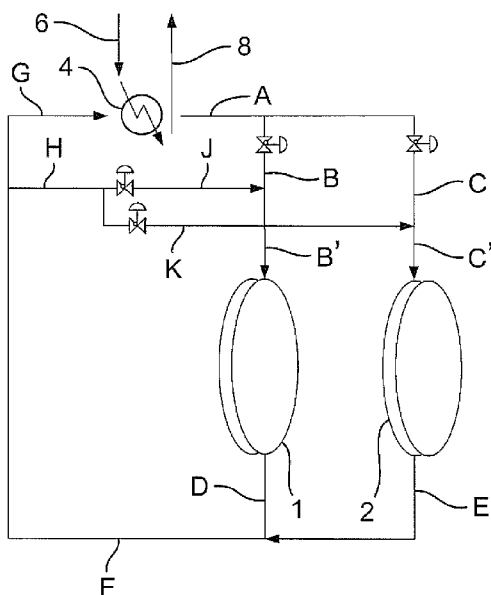
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(54) Title: REACTOR COOLING SYSTEM

Fig. 1



(57) Abstract: A cooling circuit for at least two reactors which form at least part of a polymerisation reactor system is described, which circuit comprises: one or more heat exchangers which provide at least 95% of the cooling requirement for the cooling circuit; a cold flow of cooling fluid exiting the one or more heat exchangers, part of which cold flow passes into a first inlet flow directed to the cooling system of a first reactor, and part of which passes into a second inlet flow directed to the cooling system of a second reactor; a return flow comprising the combined exit flows of the cooling fluids used to remove the heat from each of the reactors; wherein a portion of the return flow is diverted to bypass at least one of the heat exchangers, and is wholly or partly incorporated into at least one of the first and second inlet flows. The application also covers a process using the above circuit.



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