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PUBLISHED OCTOBER 7, 1975

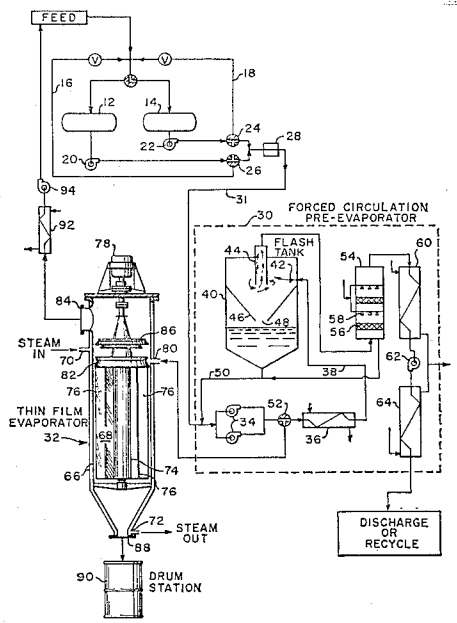
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SPENT REGENERANT PROCESSING SYSTEM

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Filed Mar. 20, 1974, Ser. No. 452,857
Int. Cl. C09k *3/00*
U.S. Cl. 252—301.1 W
1 Sheet Drawing. 9 Pages Specification



This invention involves a system for processing liquid wastes containing dissolved solids which result from the operation of a nuclear steam supply system. The processing sequence is to first collect the liquid wastes in hold-up tanks (**12** and **14**). When sufficient volume is collected, the liquid waste is pumped through a filter (**28**) to the first stage of a dual evaporation process. This first stage, the pre-concentrator, consists of a forced-circulation evaporator (**30**) with a very high bottoms-to-distillate decontamination factor. The concentrate from this unit is fed to one of two thin film evaporators (**32**) which further concentrates the liquid waste and discharges solids of low moisture content. The solids are then drummed and shipped off-site for disposal. The distillate produced from the thin film evaporator is recycled back to the original collection tanks in order to maintain a very high overall decontamination factor for the distillate.

Oct. 7, 1975 D.N. ENEGESS T939,005

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Original Filed March 20, 1974

