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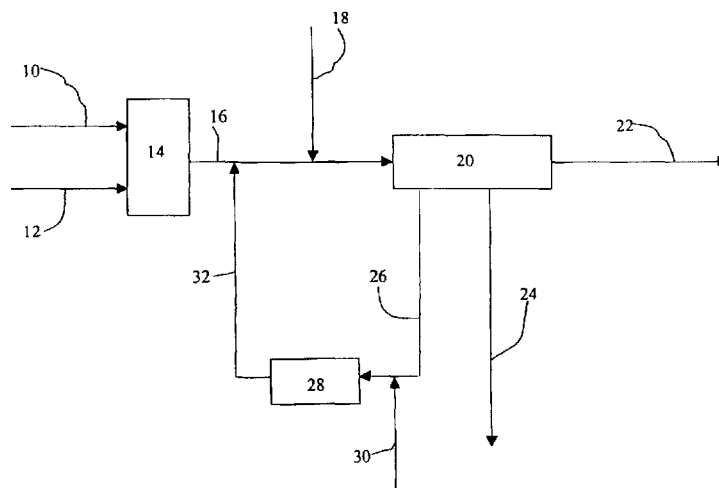
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(54) Title: METHOD AND SYSTEM FOR PURIFYING CUMENE HYDROPEROXIDE CLEAVAGE PRODUCTS



(57) Abstract: A system for purifying a cumene hydroperoxide cleavage product mixture comprises a cumene hydroperoxide cleavage product mixture feed (16) containing impurities in fluid communication with an aqueous alkaline solution feed (18); the cumene hydroperoxide cleavage product mixture (16) and aqueous alkaline solution feeds (18) in fluid communication with a neutralization drum (20) having an aqueous salt phase outlet (24); a aqueous salt phase feed (26) containing impurities in fluid communication with a decomposer reactor (28) having an oxidized aqueous salt phase outlet (32); an oxidizing agent feed (30) in fluid communication with the aqueous salt phase feed (26) containing the impurities prior to the decomposer reactor (28); and an oxidized aqueous salt phase feed (26) containing water-soluble oxidized derivatives (32) of the impurities in fluid communication with the cumene hydroperoxide cleavage product mixture (16) prior to the neutralization drum (20).



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