

ABSTRACT OF THE DISCLOSURE

Disclosed is an apparatus for recycling sulfuric acid- hydrogen peroxide solution for removing hydrogen peroxide. The apparatus includes a recycle heater for pre-heating the solution, a reaction tank for adding reacting agent to react with the solution, a heat storage tank and a liquid storage tank. The recycle heater includes a closed tank body and at least one set of heat exchange tubes. The reaction product like sulfuric acid solution due to the reaction by heating is fed into the heat exchange tube and serves as a heating medium for preheating. The reaction product cooled by the heat exchanging is collected by the storage tank. Therefore, the present invention employs the means of heat exchange to safely preheat the solution and cool down the reaction product like the sulfuric acid solution.

Figure 2