

SLURRY MIXING APPARATUS AND METHOD

ABSTRACT

An apparatus and method for producing a slurry from a slurry concentrate in which streams of slurry concentrate, deionized water and oxidizer are pumped to form three pumped streams that are brought together to form a mixture. Homogeneity is promoted within the mixture by such devices as a static mixer and an in-line mixer of special design. The resultant homogenous stream is then pumped to dispense pressure by a dispense pump to produce a dispense stream. Part of the dispense stream, preferably about fifty percent, is recycled back to a junction at which the pumped streams join to further promote homogeneity of the slurry. For such purpose a flow network is connected to an outlet pump and such flow network is branched so as to have a dispense leg from which the dispense stream issues and a recycle leg connected to the junction for recirculating the recycle stream.

Fig. 1