

VERTICAL SOLVENT EXTRACTION DEVICE AND SOLVENT EXTRACTION SYSTEM
INCLUDING MULTIPLE OF THE SAME
ABSTRACT

A solvent extraction device comprises a mixer including a mixing container, a first solvent inlet, a second solvent inlet, a mixed solvent outlet, and an impeller, wherein the impeller mixes a first solvent and a second solvent having different densities to produce a mixed solvent, a settler including a settling container, a mixed solvent inlet, a first solvent outlet, and a second solvent outlet, and configured to separate the mixed solvent based on a density difference and a connection tube configured to connect the mixed solvent outlet with the mixed solvent inlet, wherein the settling container of the settler includes an upper surface, a lower surface formed opposite to the upper surface, and a side surface extending between the upper surface and the lower surface, and the mixed solvent inlet is formed on the side surface of the settling container or in an interior of the settling container.

Fig. 1