

Title (en)

OSMOTICALLY DRIVEN MEMBRANE PROCESSES AND SYSTEMS AND METHODS FOR DRAW SOLUTE RECOVERY

Title (de)

PROZESSE UND SYSTEME MIT OSMOSEGESTEUERTEN MEMBRANEN SOWIE VERFAHREN ZUR GEWINNUNG EINER ZUGSUBSTANZ

Title (fr)

PROCÉDÉS ET SYSTÈMES SUR MEMBRANE À ENTRAÎNEMENT OSMOTIQUE POUR PERMETTRE LA RÉCUPÉRATION DE SOLUTÉ SOURCE

Publication

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Application

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Abstract (en)

[origin: WO2012040335A2] The invention relates to osmotically driven membrane processes and systems and methods for recovering draw solutes in the osmotically driven membrane processes. Osmotically driven membrane processes involve the extraction of a solvent from a first solution to concentrate solute by using a second concentrated solution to draw the solvent from the first solution across a semi-permeable membrane. Draw solute recovery may be carried out by various means including with the use of a membrane device. The draw solute recovery may also include the use of multi-stage solute recovery using distillation columns and/or membranes, where the recovery may be assisted by a heat pump.

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