APPARATUS AND METHOD OF USE THEREOF

ABSTRACT

Disclosed herein is an apparatus comprising a shell; the shell having an inlet port for introducing a polymer solution into the shell and an outlet port for removing the polymer solution from the shell; wherein the polymer solution comprises a polymer and a solvent that is operative to dissolve the polymer; a plurality of plates in the shell; where the plurality of plates is stacked one atop the other to define a central passage that is in fluid communication with the inlet port of the shell; where the plurality of plates further defines a plurality of conduits, each conduit extending radially outwards from the central passage, where the plurality of conduits is in fluid communication with the central passage; and where the apparatus is operated at a pressure and a temperature effective to maintain the polymer solution in a single phase during its travel through the apparatus.

Fig. 1A