

Methods And Devices For Continuous Production Of Polymeric Dispersions

Abstract

The present invention is directed to the use of continuous extrusion devices to form high quality polymer dispersions. Screw extruder devices of the present invention inject water into a zone of high pressure, temperature, and shear to cause the rapid inversion of a weld in less than, for example, one minute, which compares very favorably with conventional batch methods, which can take, for example, two or more hours to complete an inversion. This rapid inversion - a surprising result given the extended time inversion requires in batch processes - allows for the continuous production of polymer dispersions.

Fig. 1.