

SYSTEM AND METHOD FOR PROVIDING MIXED MODE ENERGIES DURING A CONTINUOUS CHEMICAL FLOW PROCESS

ABSTRACT

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A system and method for applying ultrasonic energy and a second type of energy to a continuous flow chemical process. Ultrasonic energy is applied from an ultrasonic transducer that is in direct contact with a flow reactor. Thus, the ultrasonic energy may be applied in the absence of a carrier medium. The ultrasonic transducer
10 is on one side of the flow reactor and a second energy emitter is on the second side of the flow reactor. Thus, the ultrasonic energy and the second type of energy are applied at angles that are substantially perpendicular to the flow of material through the flow reactor.

15 (FIGURE 3)