

ABSTRACT

A reactor which is a reactor (4) in the form of a cylindrical vessel having a liquid inlet and a liquid outlet and elongated in a flowing direction, comprising, in the interior, a drive shaft (6) coaxial with the reactor, one or more stages of plate-shaped or round-bar-shaped agitating elements (1) extending in a direction perpendicular to the drive shaft, baffles composed of plates or round bars or combination thereof and/or coiled, tubular, plate-shaped or helical heat-exchangers (7) installed on the inner wall side of the reactor, wherein the natural frequency of the agitating elements is greater than the numerical value at which the agitating elements begin to vibrate, the value being calculated from the viscosity of the solution in the reactor, and the rotating speed and structure of the agitating elements.



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