

Abstract

5 The device (1) serves for the generation of a discrete liquid phase in a continuous liquid phase with a first or a second liquid. The two liquids coexist as separate phases, have different densities and permit a desired exchange of material. Provision is made to arrange the device in a container (9) which contains the second liquid forming the continuous phase. The
10 device includes a distribution member (2), in particular a cylindrical tube, and a collection passage (3) for the first liquid in a horizontal longitudinal extent. The collection passage has an outlet side (4), a collection side (5) and at least one side wall (6) connecting the outlet side and the collection side. The side wall establishes a connection between the outlet side and a
15 horizontal drip edge (7). This side wall has a shape and an inclination which enables the formation of a liquid film of the discrete liquid phase. For enhancing the stability of the Film, the side wall (6) can have a good wettability for the first liquid. The drip edge or the side wall preferably have a profiling, in particular a toothed arrangement (70) for the generation of
20 the discrete phase in the form of drops which are preferably of an equal size due to a uniform toothed arrangement.

(Fig. 1)