

ABSTRACT

The present disclosure discloses a multi-bubbling region column tray and a corresponding plate column. The multi-bubbling region column tray includes: at least two bubbling regions, provided with first openings for liquid and gas to be mixed and in contact with each other; and at least one non-side downcomer, including at least one hanging downcomer, where the hanging downcomer has a bottom part which includes one or more second openings allowing the liquid to flow toward a lower left side, and one or more third openings allowing the liquid to flow toward a lower right side; and the bottom part of the hanging downcomer is designed to separate the liquid flowing out from the one or more second openings and the liquid flowing out from the one or more third openings.

Figure 3 accompanies.