

Abstract

The invention relates to a three-phase separator and a fluidized bed reactor (100) including the three-phase separator. The three-phase separator
5 includes: an outer housing (101); a central guide barrel (11); an outer guide barrel (2) disposed radially outside of the central guide barrel (11); an upper sealing baffle (4) extending radially between the central guide barrel (11) and the outer guide barrel (2) and being hermetically connected with a top end of the central guide barrel (11) and a top end of the outer guide barrel
10 (2); an overflow guide barrel (3) disposed between the central guide barrel (11) and the outer guide barrel (2), there is a gap between a top end of the overflow guide barrel (3) and the upper sealing baffle (4); a lower sealing baffle (63) extending radially between the outer guide barrel (2) and the overflow guide barrel (3) and being hermetically connected with a bottom
15 end of the outer guide barrel (2) and a bottom portion of the overflow guide barrel (3); and a liquid outlet pipe (7).

[Fig. 2]