PATENT

INSTITUT FRANÇAIS DU PETROLE

TREATMENT OR HYDROTREATMENT REACTOR WITH A GRANULAR BED AND AN ESSENTIALLY LIQUID PHASE AND AN ESSENTIALLY GASEOUS PHASE FLOWING THROUGH THE BED

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ABSTRACT

The present invention relates to a treatment or hydrotreatment reactor comprising at least one granular bed (12), an essentially liquid phase (L) and an essentially gaseous phase (G) present in the bottom of the reactor and separated by an interface (38), and a distribution plate (20) with at least one main chimney (32) allowing circulation of liquid phase (L) towards the bed and at least one passage (30) for feeding gas phase (G) into said bed.

According to the invention, plate (20) also comprises at least one mixed chimney (34) for circulation of the liquid phase towards the bed or for feeding the gas phase into said bed.

Figure for the abstract: Figure 1.