

Reactor

Abstract

A liquid/gas reactor comprising:

(a) a bulk catalyst bed and means for supplying fresh feed and recycled at least partially converted liquid product stream to said bulk catalyst bed;

(b) means for collecting an at least partially converted liquid product stream from said bulk catalyst bed and recycling at least a portion thereof to step (a);

(c) a minor catalyst bed extending substantially vertically through the bulk catalyst bed and means for supplying recycled at least partially converted product stream only to said minor catalyst bed; and

(d) a separating wall between said bulk and said minor catalyst bed.

Fig. 3