

Abstract

METHOD FOR PRODUCING CONJUGATED DIOLEFIN

A method for producing a conjugated diolefin is configured as follows. A monoolefin having four or more carbon atoms is fed from a monoolefin feed nozzle(s) installed at n place(s) ($n = 1, 2, \dots, n$). In addition, at least 50% or more of a total amount of an oxygen-containing gas is fed from an oxygen-containing gas feed nozzle located at a bottom of a fluidized bed reactor. Furthermore, the monoolefin feed nozzles at distances $a_1, a_2, \dots, a_n$ from the oxygen-containing gas feed nozzle feed the monoolefin having four or more carbon atoms at ratios of $b_1, b_2, \dots, b_n$ ($b_1 + b_2 + \dots + b_n = 1$), respectively, and an arithmetic mean value represented by the following formula and obtained from the above distances and the above ratios is 100 mm or more.

$$\text{arithmetic mean value} = a_1*b_1 + a_2*b_2 + \dots + a_n*b_n$$

Figure 1