

50112 D/28 D16 KYOW 25.12.79
 KYOWA HAKKO KOGYO *EP --31-258
 25.12.79-JP-167667 (01.07.81) B01j-10 C02f-03/22 C12m-01/08
 Bubble column with coaxial draft device - consisting of overlapping arcuate-section vertical plates above bubble introduction region

D/S: E(AT BE CH DE FR IT LI NL SE)

Bubble column for contacting a liq. with bubbles of gas, comprises a cylindrical, vertical column to the bottom of which the gas is introduced. A draft device promotes gas liq. contact within the column. It consists of overlapping plates coaxially disposed in the column. Each plate has one vertical edge in outwardly spaced, overlapping relation to a vertical edge of an adjacent plate. Similarly the other vertical edge is in inwardly spaced overlapping relation to a vertical edge of another adjacent plate.

USE

The column is esp. designed for use in fermentation processes, e.g. for producing amino acids, organic acids, nucleic acids, antibiotics and enzymes. The use of the draft device enables efficient circulation of the liq.

DETAILS

D(5-A3)

64

The appts. comprises a vertical column (1) into the bottom of which gas is introduced through a known device (3). The draft device (2) is mounted within the column and pref. comprises overlapping plates which are arcuate in transverse cross-section. The centres of the arcs of the plates pref. define a circle 0.65 to 0.75 that of the dia. of the column. Pref. the overlap between the plates provides a total surface area of the plates of 1 to 4 times the apparent surface area of the draft device.(11pp295).

(E)ISR: SU-396361 FR1238663 DE2753388
 FR2281980 FR2073933 DS1196165
 DS1172674 . 1 Jnl.Ref.

