

Title (en)

Apparatus for dissolving solid bulk material in a liquid.

Title (de)

Vorrichtung zum Lösen von Feststoff-Schüttgut in einer Flüssigkeit.

Title (fr)

Dispositif pour la dissolution de matières solides en vrac dans un liquide.

Publication

EP 0486933 B1 19950315 (DE)

Application

EP 91119336 A 19911113

Priority

CH 366690 A 19901119

Abstract (en)

[origin: EP0486933A2] In enlarge dissolvers, for example, the sugar and sugar dust (2) carried by the transfer air is to be bound as intensively and hence as rapidly as possible by the liquid (23). It should be possible to work without a cyclone separator and without filters. For this purpose, the solid bulk material to be dissolved, for example sugar, is fed directly to the outlet region (11) of the circulation line (6, 6', 6'') of the circulating liquid before the latter strikes the impingement plate (5). The solid bulk material, for example sugar, is, with highly turbulent flow of the liquid, intensively mixed with the latter in the outlet section (11), and is partially dissolved, and the stream issuing from an outlet nozzle (4) of the outlet section (11) strikes the impingement plate (5). The transfer air is split by the latter into a multiplicity of small air bubbles which, rising slowly in the liquid (23), permit rapid binding of the sugar dust to the liquid. <IMAGE>

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