

Title (en)  
Dissolving gas in liquid.

Title (de)  
Lösen von Gas in einer Flüssigkeit.

Title (fr)  
Dissolution d'un gaz dans un liquide.

Publication  
**EP 0152201 A2 19850821 (EN)**

Application  
**EP 85300488 A 19850124**

Priority  
GB 8401781 A 19840124

Abstract (en)  
In order to dissolve a gas such as oxygen in a liquid, typically aqueous, a stream of liquid is taken from tank 2 by a pump 10 and pressurised thereby. Oxygen is introduced into the stream via a conduit 18 upstream of a venturi 20. Turbulence created as the stream passes through the venturi 20 helps to disperse the oxygen as fine bubbles in the stream. The dispersion is then conducted to a sparge pipe 14 and introduced into the main volume 4 of liquid in the tank 2. The bubbles are thereby sheared into very small bubbles that readily dissolve in or are consumed by the volume 4 of liquid. Some of the gas in the dispersion is separated therefrom at a relatively downstream position and drawn along a pipe 26 back into the stream at a relatively upstream position by the action of the stream passing through the venturi 20. A valve 28 is operable to regulate the rate at which gas is so recycled.

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IPC 8 full level  
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