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(54) Title (EN): DIFFUSER FOR AERATION OF A FLUID

(54) Title (FR): DIFFUSEUR POUR L'AÉRATION D'UN FLUIDE

(57) Abstract:

(EN): An elongate diffuser (10) comprises a diffuser body (30), and a membrane (20) attached so that introduction of gas at a working pressure into the diffuser displaces part of the membrane (20) from contact with the diffuser body (10) providing an elongate sealed compartment (50) between the membrane (20) and a surface (32) of the diffuser body (30). The gas can pass from the compartment (50) through the membrane (20) for aeration of fluid in which the diffuser (10) is immersed. The diffuser body surface (32) which bounds the compartment (50) is recessed away from the membrane (20) in use, to contribute to the lateral cross sectional area of the compartment (50) and facilitate distribution of gas along the diffuser by the compartment (50). An automatic purge valve for purging water from a gas feed pipe of a diffuser is also disclosed.

(FR): Un diffuseur allongé (10) comprend un corps de diffuseur (30) et une membrane (20) fixée de telle sorte que l'introduction de gaz à une pression de service dans le diffuseur éloigne une partie de la membrane (20) du corps de diffuseur (10) fournissant un compartiment étanche allongé (50) entre la membrane (20) et une surface (32) du corps de diffuseur (30). Le gaz peut passer du compartiment (50) à travers la membrane (20) pour l'aération du fluide dans lequel le diffuseur (10) est immergé. La surface de corps de diffuseur (32) qui délimite le compartiment (50) est en retrait par rapport à la membrane (20) lors de l'utilisation, ce qui contribue à la section transversale latérale du compartiment (50) et facilite la distribution de gaz le long du diffuseur par le compartiment (50). L'invention concerne également un robinet de purge automatique pour purger l'eau d'un tuyau d'alimentation en gaz d'un diffuseur.

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