

Title (en)

Pump, especially for concentrated fibrous suspensions.

Title (de)

Pumpe, insbesondere für konzentrierte Fasersuspensionen.

Title (fr)

Pompe notamment pour suspensions fibreuses concentrées.

Publication

**EP 0600820 A1 19940608 (FR)**

Application

**EP 93490022 A 19931125**

Priority

FR 9214872 A 19921204

Abstract (en)

According to the invention the pump includes a hollow shaft and a device for drawing off gas which is connected to this hollow shaft; what is more it includes at least one propeller (7), the blades (11, 11') of which are provided on their suction face (17, 30) with at least one discharge orifice which is connected to the device for drawing off gas by means of the hollow shaft. Preferably each blade (11) is hollow and includes an internal suction chamber (26) which emerges, on the one hand, into the internal recess (18) of the hollow shaft and, on the other hand, into multiple orifices (28) formed on the suction face (17). <IMAGE>

Abstract (fr)

Selon l'invention la pompe comporte un arbre creux et un dispositif de soutirage de gaz qui est connecté à cet arbre creux, de plus elle comporte au moins une hélice (7) dont les pâles (11,11') sont pourvues sur leur extrados (17,30) d'au moins un orifice d'évacuation qui est relié au dispositif de soutirage de gaz par l'intermédiaire de l'arbre creux. De préférence chaque pale (11) est creuse et comporte une chambre interne d'aspiration (26) qui débouche d'une part dans l'évidement intérieur (18) de l'arbre creux et d'autre part dans des orifices multiples (28) pratiqués sur l'extrados (17). <IMAGE>

IPC 1-7

**F04D 7/04**; F04D 29/18; F04D 3/00

IPC 8 full level

**F04D 3/00** (2006.01); **F04D 7/04** (2006.01); **F04D 29/18** (2006.01)

CPC (source: EP)

**F04D 3/00** (2013.01); **F04D 7/045** (2013.01); **F04D 29/181** (2013.01)

Citation (search report)

- [A] FR 2479870 A1 19811009 - AHLSTROEM OY [FI]
- [A] NL 7401 C
- [A] US 3230890 A 19660125 - HIDEKUNI YOKOTA, et al
- [A] EP 0409456 A2 19910123 - KAMYR AB [SE]
- [A] EP 0298693 A2 19890111 - KAMYR AB [SE]
- [A] US 1423496 A 19220718 - HANEY LEWIS H
- [A] FR 2223573 A1 19741025 - NALPAS CLAUDE [FR]
- [A] EP 0337394 A2 19891018 - AHLSTROEM OY [FI]
- [A] US 3944406 A 19760316 - JAGUSCH LEONHARD, et al

Cited by

US6210105B1; WO9954026A1

Designated contracting state (EPC)

BE CH DE LI

DOCDB simple family (publication)

**EP 0600820 A1 19940608**; **EP 0600820 B1 19960529**; DE 69302888 D1 19960704; DE 69302888 T2 19961107; FR 2698916 A1 19940610; FR 2698916 B1 19950303

DOCDB simple family (application)

**EP 93490022 A 19931125**; DE 69302888 T 19931125; FR 9214872 A 19921204