

Title (en)

DEVICE FOR TRANSPORTING THICK MATTER SUSPENSIONS AND METHOD FOR ITS OPERATION

Publication

**EP 0197402 A3 19870805 (DE)**

Application

**EP 86103935 A 19860322**

Priority

DE 3512946 A 19850411

Abstract (en)

[origin: EP0197402A2] 1. Apparatus for conveying slurries, comprising at least two two-cylinder piston pumps, the cylinders of which can be connected by a valve alternately with the feed of the slurry and with the delivery pipe, and wherein both two cylinder piston pumps deliver into a common delivery pipe and the second two-cylinder piston pump operates displaced by a quarter-cycle in time from the first, characterized in that the inlet of the delivery pipes (10 and 12) of the two two-cylinder piston pumps (A and B) into the common delivery pipe (15) is effected by a pivoting flap valve (14).

IPC 1-7

**F04B 15/02**; **F04B 7/00**

IPC 8 full level

**F04B 7/00** (2006.01); **F04B 15/02** (2006.01)

CPC (source: EP)

**F04B 7/0026** (2013.01); **F04B 15/02** (2013.01)

Citation (search report)

- [X] DE 3419054 A1 19850124 - BOYLE BEDE ALFRED [AU]
- [A] DE 2909964 A1 19800925 - SCHWING GMBH F
- [A] DE 2721678 A1 19771201 - ACKERMANN ROBERT AUDLEY, et al
- [A] DE 1296524 B 19690529 - ROYAL INDUSTRIES

Cited by

EP0964271A3; EP0340050A1; EP0315750A1; WO2006125606A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

**EP 0197402 A2 19861015**; **EP 0197402 A3 19870805**; **EP 0197402 B1 19900613**; AT E53635 T1 19900615; AU 5604386 A 19861120; AU 587816 B2 19890831; CA 1281592 C 19910319; DE 3512946 A1 19861016; DE 3671939 D1 19900719; JP S61252876 A 19861110; ZA 862657 B 19861230

DOCDB simple family (application)

**EP 86103935 A 19860322**; AT 86103935 T 19860322; AU 5604386 A 19860411; CA 506435 A 19860411; DE 3512946 A 19850411; DE 3671939 T 19860322; JP 8244686 A 19860411; ZA 862657 A 19860409