

Title (en)
ARTICULATED ARM FOR TRANSFERRING FLUID PRODUCTS WITH U-SHAPED SPRING BALANCING

Title (de)
GELENKARM ZUM TRANSFER VON FLÜSSIGKEITEN MIT EINER GLEICHGEWICHTSFEDER IN "U"-FORM

Title (fr)
BRAS ARTICULE DE TRANSFERT DE PRODUITS FLUIDES A EQUILIBRAGE PAR RESSORT EN U

Publication
EP 1089936 B1 20030108 (FR)

Application
EP 99910439 A 19990326

Priority
• FR 9900709 W 19990326
• FR 9807227 A 19980609

Abstract (en)
[origin: FR2779422A1] The invention concerns an articulated arm for transferring fluid products comprising two tubular sections (7, 8+2) mutually linked by a pivoted connection (3) with horizontal axis, and a balancing device (4, 10) linked with each of the tubular sections to compensate torque variations about the pivoted connection axis while the two sections are rotating relatively. The invention is characterised in that the balancing device comprises a U-shaped spring (10) with two branches (11, 12) whereof the ends (11A, 12A) are each connected to a respective section.

IPC 1-7
B67D 5/01

IPC 8 full level
B67D 7/00 (2010.01); **B67D 7/04** (2010.01); **B67D 9/02** (2010.01)

CPC (source: EP KR)
B67D 7/002 (2013.01 - EP); **B67D 7/06** (2013.01 - KR); **B67D 9/02** (2013.01 - EP)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
FR 2779422 A1 19991210; FR 2779422 B1 20000901; AT E230704 T1 20030115; AU 2939599 A 19991230; AU 742137 B2 20011220; BR 9911524 A 20010327; CA 2334982 A1 19991216; CA 2334982 C 20091208; CN 1093838 C 20021106; CN 1305434 A 20010725; CZ 20004585 A3 20011114; DE 69904819 D1 20030213; DE 69904819 T2 20030904; EP 1089936 A1 20010411; EP 1089936 B1 20030108; ES 2189400 T3 20030701; JP 2002517362 A 20020618; KR 100613987 B1 20060821; KR 20010071431 A 20010728; NO 20006245 D0 20001208; NO 20006245 L 20010130; PL 344480 A1 20011105; RO 118582 B1 20030730; SK 18682000 A3 20011203; TR 200003663 T2 20010521; WO 9964344 A1 19991216; ZA 200006991 B 20020525

DOCDB simple family (application)
FR 9807227 A 19980609; AT 99910439 T 19990326; AU 2939599 A 19990326; BR 9911524 A 19990326; CA 2334982 A 19990326; CN 99807155 A 19990326; CZ 20004585 A 19990326; DE 69904819 T 19990326; EP 99910439 A 19990326; ES 99910439 T 19990326; FR 9900709 W 19990326; JP 2000553361 A 19990326; KR 20007013876 A 20001207; NO 20006245 A 20001208; PL 34448099 A 19990326; RO 200001188 A 19990326; SK 18682000 A 19990326; TR 200003663 T 19990326; ZA 200006991 A 20001128