

Title (en)
PUMP ASSEMBLY AND RELATED COMPONENTS

Title (de)
PUMPENANORDNUNG UND ZUGEORDNETES ELEMENT

Title (fr)
ASSEMBLAGE DE POMPE ET COMPOSANTS ASSOCIES

Publication
EP 1169550 A2 20020109 (EN)

Application
EP 00916603 A 20000322

Priority
• US 0007562 W 20000322
• US 12555999 P 19990322
• US 53233800 A 20000321
• US 53163100 A 20000321
• US 53235600 A 20000321

Abstract (en)
[origin: WO0057056A2] A pump assembly and related components for pumping water, sewage or other pumped material from one location to another are disclosed. The pumping system includes a motor (534) coupled to a centrifugal pump and a separator defining a reservoir in fluid communication with an inlet of the centrifugal pump. A water liquid ring vacuum pump provides the required vacuum to prime the pump. A pump impeller (330) is provided for increasing the efficiency of the pump. The pump impeller (330) preferably includes a core member (360) having a back face (366), a front face (362), and a central bore (348) extending therebetween. A first blade (368) and a second blade (370) are fixed to the front face (362) of the core member (360). Each blade (368, 370) has a trailing portion terminating at a trailing edge and a leading portion terminating at a leading edge. The leading portion (384) of the first blade (368) preferably radially overlaps the trailing portion (390) of the second blade (370). The pump is preferably mounted to a trailer for transport.

IPC 1-7
F01D 1/02

IPC 8 full level
F01D 1/02 (2006.01); **F04D 7/04** (2006.01); **F04D 9/04** (2006.01); **F04D 13/02** (2006.01); **F04D 29/22** (2006.01)

CPC (source: EP)
F04D 7/045 (2013.01); **F04D 9/041** (2013.01); **F04D 13/02** (2013.01); **F04D 29/2288** (2013.01)

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)
WO 0057056 A2 20000928; **WO 0057056 A3 20010111**; **WO 0057056 A9 20011025**; AU 2004237829 A1 20050113;
AU 2004237829 B2 20080424; AU 2008203315 A1 20080814; AU 3768300 A 20001009; AU 776504 B2 20040909; EP 1169550 A2 20020109;
EP 1169550 A4 20031119

DOCDB simple family (application)
US 0007562 W 20000322; AU 2004237829 A 20041209; AU 2008203315 A 20080724; AU 3768300 A 20000322; EP 00916603 A 20000322