

Title (en)

Assembly of a mechanical or hydraulic drive and a piston pump

Title (de)

Zusammenbau eines mechanischen oder hydraulischen Antriebs mit einer Kolbenpumpe

Title (fr)

Assemblage d'un entraînement mécanique ou hydrostatique pour une pompe à piston

Publication

EP 0990796 A3 20001102 (EN)

Application

EP 99307761 A 19990930

Priority

GB 9821308 A 19981002

Abstract (en)

[origin: EP0990796A2] A ram pump assembly (1) comprises a ram pump (2) having a pump body (3) and pump piston means (4), drive means (12) having a drive shaft arm (13,31) and a mounting plate assembly (5). The mounting plate assembly (5) comprises four pillars (6) attached at one end to the pump body (3), a mounting plate (8) attached to the other end of the pillars (6) and having a hole (11) therethrough and a crosshead (15) slidably mounted on at least two of the pillars (6). The drive means (12) is mounted on the mounting plate (8) with the drive shaft arm (13,31) extending through the hole (11) in the mounting plate (8) such that the drive shaft arm (13,31) is attached to one surface of the crosshead (15) and the pump piston means (4) is attached to the opposed surface of the crosshead (15). The arrangement of the mounting plate (8) enables energy to be transferred from the drive means (12) via a piston or shaft through the crosshead (15) to the ram pump piston (4). The pillars (6) hold the mounting plate (8) rigidly and prevent yawing and twisting of the drive means (12) with respect to the ram pump (2). <IMAGE>

IPC 1-7

F04B 53/22; F04B 9/04; F04B 9/103; F04B 49/12; F04B 9/105

IPC 8 full level

F04B 9/04 (2006.01); **F04B 9/103** (2006.01); **F04B 49/12** (2006.01); **F04B 53/22** (2006.01)

CPC (source: EP US)

F04B 9/04 (2013.01 - EP); **F04B 9/1035** (2013.01 - EP); **F04B 49/12** (2013.01 - EP US); **F04B 53/22** (2013.01 - EP US);
F04B 2201/0206 (2013.01 - EP)

Citation (search report)

- [X] GB 2107798 A 19830505 - CRAGGS THOMAS ARTHUR
- [DA] GB 677136 A 19520813 - THOMAS WILLETT & COMPANY LTD, et al
- [DA] GB 2159888 A 19851211 - WILLETT & CO LIMITED THOMAS

Cited by

GB2431699A; GB2431699B

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)

EP 0990796 A2 20000405; **EP 0990796 A3 20001102**; **EP 0990796 B1 20060301**; DE 69930073 D1 20060427; DE 69930073 T2 20061005;
GB 2342405 A 20000412; GB 2342405 B 20020417; GB 9821308 D0 19981125

DOCDB simple family (application)

EP 99307761 A 19990930; DE 69930073 T 19990930; GB 9821308 A 19981002