

Title (en)  
RECIPROCATING PUMP UNIT

Publication  
**EP 0310254 A3 19900530 (EN)**

Application  
**EP 88308194 A 19880905**

Priority  
GB 8720995 A 19870907

Abstract (en)  
[origin: EP0310254A2] Pump units with reciprocably movable pistons driven by linear electric motors move substantially equal volumes of fluid on each stroke. Two pistons (10,11) can be moved alternately towards and away from each other, or a piston assembly comprising a piston (60;85) is reciprocated in a cylinder (61;82) together with a discharge tube (56;99) extending from the piston into a discharge duct (75;102).

IPC 1-7  
**F04B 17/04**

IPC 8 full level  
**F04B 3/00** (2006.01); **F04B 17/04** (2006.01); **F04B 53/12** (2006.01)

CPC (source: EP US)  
**E21B 43/128** (2013.01 - EP US); **F04B 3/00** (2013.01 - EP); **F04B 17/046** (2013.01 - EP); **F04B 53/125** (2013.01 - EP);  
**F04B 53/126** (2013.01 - EP)

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US9045976B2; WO2014044334A3; WO0175304A1; WO2012089246A1

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