

Title (en)  
Fluid Pump Assembly

Title (de)  
Flüssigkeitspumpenanordnung

Title (fr)  
Ensemble de pompe à fluide

Publication  
**EP 2189658 A1 20100526 (EN)**

Application  
**EP 08169804 A 20081124**

Priority  
EP 08169804 A 20081124

Abstract (en)  
A fluid pump assembly comprising a driven cam (18) and a reciprocating member (26, 28; 126, 226, 326; 32, 34) reciprocal within a bore provided in a pump housing (12, 30) as the cam (18) is driven, in use, to cause pressurisation of fluid within a pump chamber (33, 35). The pump assembly further comprises interface means (26a, 18c) between the cam (18) and the reciprocating member, preferably in the form of bevelled surfaces (18c, 26a, 28a; 32a, 34a) of the cam and the reciprocating member, which serve to drive the reciprocating member (26, 28) (i) to translate in a first, axial direction within the bore and (ii) to rotate within the bore in a second, rotational direction. A preferred feature of the fluid pump assembly is that the pump housing (12, 30) defines a bearing (22) for the cam (18) which is provided with a region of weakness (50) to allow the bearing (22) to deflect, in use, thereby to provide an increased lubrication volume between the cam and the bearing (22). The reciprocating member may take the form of a tappet (26, 28) which cooperates with a pumping plunger to pressurise fluid within the pump chamber (33, 35).

IPC 8 full level  
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**F04B 9/042** (2013.01 - EP US)

Citation (applicant)  
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