

Title (en)  
Power transmitting device.

Title (de)  
Kraftübertragungsgerät.

Title (fr)  
Dispositif de transmission du pouvoir.

Publication  
**EP 0566072 A1 19931020 (EN)**

Application  
**EP 93106029 A 19930414**

Priority  
• JP 12127592 A 19920414  
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• JP 18175392 A 19920615  
• JP 35207592 A 19921208

Abstract (en)  
A power transmitting device (100) for converting a reciprocating motion of a piston (15) into a rotational motion. The piston (15) is reciprocated in a cylinder (11) of a reciprocating engine to perform suction, compression, explosion and exhaust. The power transmitting device (100) includes a connecting member (21) supported to the piston (15); a guide member (25,26) for linearly guiding the connecting member (21); a power transmitting member supported to the connecting member (21); a cam member (31,31') having a cylindrical surface on which a cam having a predetermined cam curve is formed, the cam being engaged with the power transmitting member; and a drive shaft (30) integral with the cam member (31). The drive shaft (30) is rotated by a linear reciprocating motion of the power transmitting member in a plane perpendicular to a direction of the linear reciprocating motion of the power transmitting member. With this arrangement, the drive shaft (30) extends in a direction parallel to a reciprocating direction of the piston, thereby making the construction of the power transmitting device greatly compact in a radial direction thereof. Further, the power transmitting device (100) is equivalent to a power transmitting device including a primary reduction gear having a reduction ratio to be decided by the cam curve of the cam, thereby smoothly obtaining a high torque. <IMAGE>

IPC 1-7  
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IPC 8 full level  
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Citation (search report)  
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