

Title (en)

FRICION CLUTCH WITH WEAR TAKE-UP DEVICE, IN PARTICULAR FOR MOTOR VEHICLE

Title (de)

REIBUNGSKUPPLUNG MIT EINER VERSCHLEISSNACHSTELLUNG, INSBESONDERE FÜR KRAFTFAHRZEUGE

Title (fr)

EMBRAYAGE A FRICTION A DISPOSITIF DE RATTRAPAGE D'USURE, NOTAMMENT POUR VEHICULE AUTOMOBILE

Publication

EP 1003982 A1 20000531 (FR)

Application

EP 99928044 A 19990623

Priority

- FR 9901501 W 19990623
- FR 9808002 A 19980624

Abstract (en)

[origin: FR2780464A1] The clutch comprises flywheel (11), with linked cover (15), friction disk (12) with friction liner (13) acted on by pressure plate (14) to impart output rotation to the drive shaft (27). The diaphragm arms (16) act on the plate (14) to cause clutch engagement. A mechanical screw compensator (18) adjusts for width change in the lining (13) due to wear or heat. For disengagement the rod (40) is moved causing the piston (31) in the cylinder (30) to produce fluid flow through pipe (43) connection to the diaphragm actuator (20), with piston (21) causing arm (15) movement to the disengaged position and releasing the pressure plate. On release of the rod (40) the piston (21) retracts under the force of the spring (23) to a new position set by the compensator (18) to allow for width change in the liner (13). The piston (31) fully retracts under the force of spring (33). Fluid make-up from the reservoir (41) is ensured via the non-return valve (50) to the cylinder (30). Further actuation of the rod (40) for clutch disengagement produces diaphragm actuation from the newly adjusted stop position, thereby avoiding play in the rod before clutch disengagement. Hydraulic or electric versions of the actuator may be provided.

IPC 1-7

F16D 25/12; **F16D 13/75**

IPC 8 full level

F16D 13/75 (2006.01); **F16D 25/08** (2006.01); **F16D 25/12** (2006.01)

CPC (source: EP)

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