

Title (en)

Speed variator for laundry washing machine.

Title (de)

Wechselgetriebe für Waschmaschine.

Title (fr)

Variateur de vitesse pour machine à laver le linge.

Publication

EP 0175213 A2 19860326 (EN)

Application

EP 85111174 A 19850904

Priority

IT 4572284 A 19840917

Abstract (en)

A speed variator for a laundry washing machine comprising a drum (6) mounted for rotation in a laundering tub (5) and adapted to be rotated at different speeds by a motor (7) via a transmission belt (8) interconnecting a driving pulley (9) of motor (7) and a driven pulley (10) associated with the drum. The driving pulley (9) of the speed variator is of the variable-diameter type and cooperates with a number of radially expandable flyweights (14)> The driving pulley (9) and the motor (7) are carried by a rotatable carrier arm (19) having one of its ends hingedly connected to a lower portion of the tub (5), while its other end is connected to a piston (29) mounted for reciprocating displacement to different operating positions in a cylinder (39) connected through a solenoid valve (31) to the water supply circuit of the machine. The carrier arm (19) is biased by a torsion spring (25) to a position in which the driving pulley (9) is effective to keep the belt (8) under tension against the action caused by the radial expansion of the flyweights (14). The piston (29) acts on the carrier arm (19) in a manner to interdict or to permit the radial expansion of the flyweights (14) to varying degrees depending on the respective position of the piston. As a result, the effective diameter of the driving pulley (9) is varied by different degrees, permitting the drum (6) to be rotated at variable speeds.

IPC 1-7

D06F 37/36; F16H 11/06

IPC 8 full level

D06F 37/36 (2006.01)

CPC (source: EP)

D06F 37/36 (2013.01)

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0175213 A2 19860326; EP 0175213 A3 19870805; ES 288981 U 19860616; ES 288981 Y 19870301; IT 1181076 B 19870923; IT 8445722 A0 19840917; IT 8445722 A1 19860317

DOCDB simple family (application)

EP 85111174 A 19850904; ES 288981 U 19850911; IT 4572284 A 19840917