Title (en)

Computer for a printing machine

Title (de)

Rechner für eine Druckmaschine

Title (fr)

Ordinateur pour une machine d'imprimerie

Publication

EP 0908803 B1 20041117 (DE)

Application

EP 98117968 A 19980922

Priority

DE 29717921 U 19971009

Abstract (en)

[origin: EP0908803A1] US5692989 A This invention relates to high reduction planetary transmissions that do not use internal ring gears and particularly planet gears that are the support for the planet carrier and in some cases the planet carrier may be used as a support bearing for the input shaft relative to the stationary and output gears with which they mesh. The floating is accomplished by providing means to let the carrier move radially in response to unbalanced forces from the planet gears. The floating of the planet gears improves the alignment between the intermeshing gears and the balancing of the load between the planet gears. A speed reducing device placed between the input shaft of the transmission and the drive means is used to decrease the speed of the input shaft to decrease the centrifugal force on the planetary pinions as they rotate around the sun and output gears. <E3-Claims PN=5692989> The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows: ÄECNÜ A planetary power transmission in combination with a speed reducer comprising; a stationary housing; a drive shaft extending into said housing; a stationary gear having external teeth surrounding said drive shaft and fixed to said housing; an output shaft extending into said housing opposite to and a axially aligned with said input shaft; an output gear mounted on said output shaft; a planet carrier having at least two equally arcuately spaced planet shafts extending therefrom; first planet gears rotatably mounted on said planet shafts and positioned to mesh with said stationary gear; second planetary gears rotatably mounted on said planetary shaft and positioned to mesh with said output gear; said planetary gears being coupled to rotate together; a radially extending drive plate mounted on the inward end of said drive shaft for rotation therewith and having opening near its radially outward ends; pins attached to said carrier and extending into said openings in said drive plate to rotate said carrier with said drive shaft, said pins being in a loose fitting relationship with said drive plate to allow radial movement or said pins and said carrier relative to said drive plate; a power source; a speed reduction mechanism positioned between the output shaft of said power source and said transmission drive shaft.

IPC 1-7

G05B 19/042

IPC 8 full level

B41F 33/00 (2006.01); **G05B 19/042** (2006.01)

CPC (source: EP)

B41F 33/0009 (2013.01)

Cited by

DE102005060190A1; DE19961995B4; US10000055B2

Designated contracting state (EPC)

AT DE FR GB

DOCDB simple family (publication)

EP 0908803 A1 19990414; **EP 0908803 B1 20041117**; AT E282847 T1 20041215; DE 29717921 U1 19971120; DE 59812270 D1 20041223

DOCDB simple family (application)

EP 98117968 A 19980922; AT 98117968 T 19980922; DE 29717921 U 19971009; DE 59812270 T 19980922