

Title (en)

Incrementally variable transmission between prestretching rollers in a stretch-film wrapping machine.

Title (de)

Schrittweise verstellbares Getriebe zwischen Vorstreckungswalzen in einer Maschine zum Umhüllen mit streckbarer Folie.

Title (fr)

Transmission variable par incréments entre des rouleaux de pré-étirage dans une machine d'emballage à film étirable.

Publication

EP 0653352 A1 19950517 (EN)

Application

EP 94850205 A 19941117

Priority

SE 9303804 A 19931117

Abstract (en)

An incrementally variable transmission (16) for transmitting torque between input and output rollers (4,6) in a prestretching device (2) of a stretch-film wrapping machine achieves a selectable prestretching of a plastic film with a predetermined yield point, running in contact with the rollers. The input roller (4) is caused to rotate at lower rpm than the output roller (6), and the transmission (16) comprises a multiratio gear train (22) between an input shaft (28) and an output shaft (26), said gear train (22) being arranged in a housing (18), and a device (24) engaging and disengaging the input shaft (28) to or from the gear train. The input and output shafts (28,26) of the gear train are coaxial. The coupling device is a free-wheel clutch (20) which is in its engaged position when the input roller (4) is imparted, due to tension in the film between the rollers, a torque from the output roller (6), and the clutch (20) assumes its released position when said torque is absent. <IMAGE>

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [A] US 4336679 A 19820629 - LANCASTER PATRICK R, et al
- [A] EP 0220712 A1 19870506 - PIERI SRL [IT]
- [A] FR 2544702 A1 19841026 - POLYPACK IND [FR]
- [A] FR 2606365 A1 19880513 - SFEIMA SARL [FR]

Cited by

BE1017659A3; US2012174533A1; US9187193B2; GB2395165A; GB2395165B; US10011383B2; US9908648B2; US10138012B2; WO2008155129A1; WO2007010341A1; US9764867B2; US10093439B2; US10526097B2; US11273935B2; US11479378B2; US10273031B2; US11097865B2; US11649084B2; US9932134B2; US10005581B2; US11111046B2; US11174056B2; US10239645B2; US10717554B2; US11407538B2; US11518558B2; US11912445B2; EP1188671A1; US9725195B2; US9932137B2; US11208225B2; US10227152B2; US10421570B2; US11597554B2; US11667416B2; US11685567B2; US10005580B2; US10053253B2; US10435191B2; US10926906B2; US10934034B2; US11034470B2; US11104464B2; US11111045B2; US11505343B2; US11518557B2; US11731793B2; EP2164770B1; EP2164770A1

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