

## Title (en)

MOTOR CONTROL OF A DRIVING DEVICE FOR FLOOR OR TROLLEY CONVEYORS ESPECIALLY FOR MINING INDUSTRY

## Publication

**EP 0239895 A3 19900523 (DE)**

## Application

**EP 87104186 A 19870321**

## Priority

DE 3610677 A 19860329

## Abstract (en)

[origin: EP0239895A2] A control system of the drive motor (13) of a driving device for floor or trolley conveyors, especially for the mining industry, is arranged in a coupling rod (10) which connects the driving device to the next driven device. The coupling rod (10) consists of a rod (17) coupled to the driving device and of an elongated housing (19) which is coupled to the next driven device and in which the rod (17) is mounted in a longitudinally displaceable manner and is supported on either side by springs (24). A means (36) proportioning the power supply to the drive motor (13) is arranged in the housing (19). An actuating means (34) for this means (36) is arranged on the rod and can be displaced relative to the latter by an adjusting means (28-33). The actuating means (34) works by displacement relative to the means (36) in such a way that the relative position between the two determines the direction and extent of the power supply. Control is effected at will by the adjusting means (28-33). Automatic control is superimposed on this by longitudinal displacement of the rod (17) relative to the housing (19). This automatic control reacts to a change in the pulling or pushing force and balances it in such a way that the motor speed remains constant. <IMAGE>

## IPC 1-7

**B66C 11/06**; **B66C 13/18**

## IPC 8 full level

**B61C 13/04** (2006.01); **B61G 5/02** (2006.01); **B66C 9/14** (2006.01)

## CPC (source: EP)

**B61C 13/04** (2013.01); **B61G 5/02** (2013.01); **B66C 9/14** (2013.01)

## Citation (search report)

- [A] US 4280413 A 19810728 - KERR DOUGLAS M, et al
- [A] DE 2458074 A1 19760610 - HOFFMANN DIETER
- [A] DE 7236833 U 19770623
- [A] DE 7718608 U1 19800320

## Cited by

CN105712197A; CN101734558A; CN114506362A

## Designated contracting state (EPC)

DE FR GB

## DOCDB simple family (publication)

**EP 0239895 A2 19871007**; **EP 0239895 A3 19900523**; DE 3610677 A1 19871001; DE 3610677 C2 20010315; ZA 872275 B 19880629

## DOCDB simple family (application)

**EP 87104186 A 19870321**; DE 3610677 A 19860329; ZA 872275 A 19870327