

## Title (en)

Return pulley drive for a monocable ropeway with fixed clamps

## Title (de)

Antriebsvorrichtung für die Umlenkscheibe einer Einseilumlaufbahn mit festen Klemmen

## Title (fr)

Dispositif d'entraînement d'une poulie de renvoi d'un télésiège mono câble à pinces fixes

## Publication

**EP 1396408 A1 20040310 (FR)**

## Application

**EP 03354068 A 20030723**

## Priority

FR 0210924 A 20020904

## Abstract (en)

The chair lift with an overhead cable (10) for carrying and pulling the chairs comprises a station (14) with a return pulley (12) for the cable and means for positioning the pulley with vertical axis on a cart (30) mounted on a support device (22) for utilizing the pulley driven by a motor-reduction mechanism (20) as the traction pulley. The motor-reduction mechanism (20) comprises an electromotor (34) and a mechanical reductor (36) in the form of two modules of coaxial elements perpendicular to the pulley in substantially vertical direction and positioned on two sides of the pulley. The mechanical reductor (36) is in the form of two independent modules placed on lower and upper sides of the return pulley (12). The high-velocity output element (40) of the electromotor (34) traverses a sheath (38) joined to the cart (30) and is surrounded by the low-velocity output element (44) of the reductor (36). The pulley (12) can rotate around the sheath (38) with interposed bearings and comprises a driving muff connected to the low-velocity output element of the reductor. The mechanical reductor (36) is with reducing gears positioned above the pulley, or the motor-reduction mechanism (20) comprises a motor equipped with an electronic velocity switch for a direct drive of the pulley. The pulley (12) is equipped with a co-wheel (62) cooperating with a spare or emergency motor (64) joined to the cart (30). The support device comprises a base (24) supporting fixed horizontal profiles (28) along which the cart (30) can be displaced by the intermediary of bearings (32). The cart (30) is associated with an elastic strap device (66) for maintaining the cable under tension. The spare motor (64) is an electromotor-reductor driven by a generator.

## Abstract (fr)

Une poulie de renvoi (12) d'un télésiège fixe monocâble est entraîné par un mécanisme motoréducteur (20) ayant une ligne d'arbres coaxiaux s'étendant perpendiculairement à la poulie de renvoi (12) selon une direction sensiblement verticale. Le mécanisme motoréducteur (20) est composé d'un moteur électrique (34) et d'un réducteur (36) mécanique constituant deux modules indépendants disposés de part et d'autre de la poulie de renvoi (12), laquelle est montée sur un chariot (30) mobile pour assurer la mise sous tension mécanique du câble (10). <IMAGE>

## IPC 1-7

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## IPC 8 full level

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## Citation (search report)

- [A] CH 590147 A5 19770729 - WOPFNER FRANZ
- [A] AT 388345 B 19890612 - ERSTE OESTERR ZAHNRAEDER [AT]
- [A] EP 0454596 A1 19911030 - POMAGALSKI SA [FR]
- [A] FR 2255200 A1 19750718 - POMAGALSKI SA [FR]

## Cited by

FR2958988A1; US8631745B2; WO2011128532A1; EP1965096B1

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