

Title (en)

Device for adjusting the tension of the thread as it unwinds in a spooler.

Title (de)

Nachstellvorrichtung für die Spannung eines Fadens während seiner Abwicklung in einer Wickelmaschine.

Title (fr)

Dispositif pour ajuster la tension du fil pendant son dévidage dans un bobinoir.

Publication

EP 0478023 A1 19920401 (EN)

Application

EP 91202060 A 19910813

Priority

IT 2132890 A 19900829

Abstract (en)

The present invention relates to a device for adjusting the tension of the thread as it unwinds in a spooler, which is designed to wind thread at high speed, the said device comprising a movable element (1), which acts as an unwinding accelerator and which at the tip surrounds the axis of the cop (3) and along the said axis descends and moves in an essentially concentric position during unwinding of the wound thread. The said movement is activated by a kinematic mechanism moved by a drive source (8) operated by the electrical signals from a tension sensor (9) which measures, moment by moment, the tension of the thread, which travels to be transferred from the cop (3) below to the reel (14) above being wound. <IMAGE>

IPC 1-7

B65H 57/22; **B65H 59/06**

IPC 8 full level

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CPC (source: EP)

B65H 57/22 (2013.01); **B65H 59/06** (2013.01); **B65H 2701/31** (2013.01)

Citation (search report)

- [X] CH 351202 A 19601231 - REINERS WALTER DR ING [DE]
- [X] EP 0225670 A1 19870616 - PICANOL NV [BE]
- [A] US B506167 I5 19760210
- [A] US 2994491 A 19610801 - ERWIN WEBER
- [A] CH 397490 A 19650815 - MMW ZWIRNMASCHINEN AG [CH]
- [A] PATENT ABSTRACTS OF JAPAN, vol. 10, no. 388 (M-549)[2445], 25th December 1986; & JP-A-61 178 373 (MURATA MACH. LTD) 11-08-1986

Cited by

EP4122858A1; EP0909736A3; US9389130B2; WO2011125046A3

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