

Abstract

1. Process and apparatus for the fast winding of a recording tape

5 2.1 There is presented a system, comprising a process and an apparatus suitable for carrying out this process, which allows fast winding of a recording tape from a first reel onto a second reel. It is intended in this case for the winding time to be as short as possible and for mechanical stressing of the tape and loop formation to be reduced.

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2.1 According to the invention, an end rotational speed is determined, from which the tape can be braked by means of a braking device without excessive mechanical loading.

15 Furthermore, a maximum set deceleration is determined, which is usually accomplished by reduced activation of a driving means used (electric motor) without use of the said braking device. This set deceleration is chosen such that loop formation is avoided and that bearing of the tape against sensors which detect special marks, such as for example the beginning of a film of a video tape [lacuna].

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According to the invention, the unwinding first reel is accelerated for as long as the remaining winding time is adequate for decelerating with the set deceleration to the end rotational speed.

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The remaining winding time is compared with the required time by comparison of terms into which there are entered, along with the end rotational speed and the set deceleration, operational variables such as the radii of the first reel and of the second reel, the associated rotational speeds and the like.

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2.3 The system according to the invention can be used with preference for the winding of video cassettes.

3. Fig. 2

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