Title (en)

Full package unloading device for automatic winder

Title (de)

Spulenentladevorrichtung für eine automatische Spulmaschine

Title (fr)

Dispositif de déchargement de bobines pour un bobinoir automatique

Publication

EP 1607358 A1 20051221 (EN)

Application

EP 05007576 A 20050406

Priority

JP 2004178453 A 20040616

Abstract (en)

The present invention provides a configuration of an unloading device that can unload a full package 3 without the need for using a timer to perform a cumbersome operation of setting time intervals at which a shutter 12 is opened and without reducing the serviceability ratio of a winding unit 2 or the conveying efficiency of a conveyor 7. In an automatic winder, a conveyor 7 is provided along a direction in which a large number of winding units are arranged in a line. A guide path 8 is provided through which a full package 3 is guided from a cradle portion 4 of each winding unit 2 to the conveyor 7. A shutter 12 is provided which can open and close the guide paths 8 in a plurality of winding units 2 at a time. When a winding progress sensor 23 senses that the full package 3 doffed is stopped by the shutter 12 to stand by and that winding on the winding package 3 in the cradle portion 4 has progressed to a predetermined level, the winding unit 2 opens the shutter 12 to simultaneously unload the full packages 3. <IMAGE>

IPC 1-7

B65H 67/06

IPC 8 full level

B65H 67/06 (2006.01)

CPC (source: EP)

B65H 67/064 (2013.01); B65H 2701/31 (2013.01)

Citation (search report)

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