

Title (en)  
Bobbin changer

Title (de)  
Bobinenwechsler

Title (fr)  
Changeur de bobines

Publication  
**EP 0995706 B1 20040506 (DE)**

Application  
**EP 99117345 A 19990903**

Priority  
DE 19847160 A 19981013

Abstract (en)  
[origin: JP2000118811A] PROBLEM TO BE SOLVED: To provide an inexpensive and easily operable reel exchanger by directly moving a reel to a reel disk with a carrying means moving in a holding station. SOLUTION: A reel disk 2 has two reel receiving means 10a, 10b, and the reel receiving means 10b receives a reel 14. A new reel 18 shown by a broken line remains stationary on rails 26 of a holding station 20. Two rails 26 extend in parallel with each other and vertically to the reel disk 2. The peripheral surface 22 of the reel 18 is supported on surfaces 28 of the rails 26. A lifting table 30 is arranged between the rails 26, can vertically move with a driving device 32, and can horizontally move along the rails 26 with a linear driving device 36. The lifting table 30 loads a corresponding reel 18 from the rails 26 onto a support load portion 38, lifts it up, and transports it along the rails 26 in the reel disk 2 direction. Then, the reel 18 is fixed by the reel receiving mean 10a.

IPC 1-7  
**B65H 19/12**

IPC 8 full level  
**B65H 19/30** (2006.01); **B65H 19/12** (2006.01); **B65H 67/04** (2006.01)

CPC (source: EP US)  
**B65H 19/123** (2013.01 - EP US); **B65H 2301/413223** (2013.01 - EP US); **B65H 2301/4172** (2013.01 - EP US);  
**B65H 2301/4185** (2013.01 - EP US); **B65H 2301/418523** (2013.01 - EP US); **B65H 2301/4187** (2013.01 - EP US)

Cited by  
DE10159520A1; DE10159520B4; US7134625B2; US7094015B2; WO03080488A3

Designated contracting state (EPC)  
CH DE ES FR GB IT LI NL

DOCDB simple family (publication)  
**DE 19847160 A1 20000420**; CN 1159197 C 20040728; CN 1250741 A 20000419; DE 59909390 D1 20040609; EP 0995706 A1 20000426;  
EP 0995706 B1 20040506; JP 2000118811 A 20000425; PL 335828 A1 20000425; US 6402083 B1 20020611

DOCDB simple family (application)  
**DE 19847160 A 19981013**; CN 99122209 A 19991013; DE 59909390 T 19990903; EP 99117345 A 19990903; JP 29108299 A 19991013;  
PL 33582899 A 19991006; US 41731499 A 19991013