

Title (en)

A yarn winding apparatus of an automatic bobbin changing type

Title (de)

Garnwickelvorrichtung eines automatischen Spulenwechseltyps

Title (fr)

Bobineuse de fil d'un type changeuse automatique de bobine

Publication

EP 0470593 B1 19951227 (EN)

Application

EP 91113263 A 19910807

Priority

JP 20977790 A 19900808

Abstract (en)

[origin: EP0470593A1] A path for guiding bobbin holders (7, 8) is formed in a closed loop shape on a machine frame (1), inner gear members (65, 66) are spaced in an axial direction of the bobbin holders (7, 8) and disposed along the bobbin holders guiding path. Two bobbin holders (7, 8) are supported on sliders (13, 14), respectively, and gear wheels (67a, 67b, 68a, 68b, 69a, 69b, 70a, 70b) disposed at the support portions of the bobbin holders (7, 8) engage with the inner gear members (65, 66). Two endless chains (82, 83) are spaced in an axial direction of the bobbin holders (7, 8) and disposed along the bobbin holders guiding path. The chains (82, 83) are connected to the bobbin holders (7, 8), respectively, whereby the bobbin holders (7, 8) can be independently moved along the bobbin holders guiding path formed to locate a winding position, a doffing position, an empty bobbin donning position, a stand by position and a bobbin changing position. <IMAGE>

IPC 1-7

B65H 54/00

IPC 8 full level

B65H 67/044 (2006.01); **B65H 67/048** (2006.01)

CPC (source: EP)

B65H 67/048 (2013.01); **B65H 2701/31** (2013.01)

Cited by

CN113200418A; EP0567091A1; US5431352A

Designated contracting state (EPC)

CH DE GB IT LI

DOCDB simple family (publication)

EP 0470593 A1 19920212; **EP 0470593 B1 19951227**; DE 69115789 D1 19960208; DE 69115789 T2 19960523; JP 2875415 B2 19990331; JP H04358670 A 19921211; KR 0158698 B1 19981201

DOCDB simple family (application)

EP 91113263 A 19910807; DE 69115789 T 19910807; JP 18206091 A 19910626; KR 910013715 A 19910808