

Title (en)  
FEEDING DEVICE

Title (de)  
ANLEGEVORRICHTUNG

Title (fr)  
DISPOSITIF DE MISE EN PLACE

Publication  
**EP 1089932 A1 20010411 (DE)**

Application  
**EP 99929148 A 19990608**

Priority  
• DE 19827635 A 19980620  
• EP 9903927 W 19990608

Abstract (en)  
[origin: DE19827635A1] The assembly to lay a number of continuous yarns simultaneously at the bobbin sleeves, held in a bobbin winder, has a carrier arm (1e) where the yarn guides (2a-2p) for each yarn slide along it. The carrier arm (1e) has at least one system to slide the yarn guides (2a-2p) parallel to the bobbin holder, and to position them at defined intervals. At least one sliding mechanism has a guide rod (5,6) where the yarn guides (2a-2p) slide along it. At least one sliding mechanism has draw rods to position neighboring yarn guides (2a-2p) at intervals between a min. and a max. value. The draw rods have carriers and/or positioning units in both directions of yarn guide movement along the guide rods (5,6). One of the two outer yarn guides (2h,2i) at the guide rods (5,6) is locked to the guide rod, while the outer yarn guides (2a,2p) at the opposite ends of the guide rods (5,6) are moved along the rods by the sliding mechanism. The sliding mechanism is a double-action piston/cylinder unit, with two units at the carrier arm (1e) in a mirror image array. One of the sliding mechanisms forms a component unit with the fixed yarn guides (2h,2i) at the guide rods (5,6). The yarn guides have a holder opening to lay the yarns.

IPC 1-7  
**B65H 54/20**

IPC 8 full level  
**B65H 54/20** (2006.01); **B65H 57/26** (2006.01); **B65H 65/00** (2006.01)

CPC (source: EP US)  
**B65H 57/003** (2013.01 - EP US); **B65H 57/26** (2013.01 - EP US); **B65H 65/00** (2013.01 - EP US); **B65H 2701/31** (2013.01 - EP US)

Citation (search report)  
See references of WO 9967165A1

Designated contracting state (EPC)  
DE ES GB IT NL

DOCDB simple family (publication)  
**DE 19827635 A1 19991223**; CN 1305431 A 20010725; DE 59902956 D1 20021107; EP 1089932 A1 20010411; EP 1089932 B1 20021002; JP 2002518278 A 20020625; US 6543714 B1 20030408; WO 9967165 A1 19991229

DOCDB simple family (application)  
**DE 19827635 A 19980620**; CN 99807385 A 19990608; DE 59902956 T 19990608; EP 9903927 W 19990608; EP 99929148 A 19990608; JP 2000555824 A 19990608; US 70054800 A 20001114