

Title (en)
YARN BRING-DOWN APPARATUS AND SPUN YARN TAKE-UP SYSTEM

Title (de)
FADENABZUGSVORRICHTUNG UND SPINNFADENAUFNAHMESYSTEM

Title (fr)
APPAREIL DE DESCENTE DE FILS ET SYSTÈME DE RATRAPAGE DE FIL FIN

Publication
EP 3392383 A1 20181024 (EN)

Application
EP 18166776 A 20180411

Priority
JP 2017081488 A 20170417

Abstract (en)
Yarn bring-down at each spun yarn take-up apparatus is achieved with low cost, even when a large number of spun yarn take-up apparatuses are lined up. A yarn bring-down apparatus 5 is provided in a spun yarn take-up system configured to take up, on a lower floor, yarns spun out from a spinning apparatus on an upper floor, and includes a wagon main body 30 configured to be movable on the upper floor and a yarn bring-down member 31 which is provided in the wagon main body 30 and is capable of moving down to the lower floor while retaining the yarns Y spun out from the spinning apparatus.

IPC 8 full level
D01D 13/02 (2006.01); **B65H 51/28** (2006.01); **B65H 54/26** (2006.01); **B65H 57/00** (2006.01); **D01D 7/00** (2006.01)

CPC (source: CN EP)
B65H 51/28 (2013.01 - EP); **B65H 54/26** (2013.01 - EP); **B65H 57/003** (2013.01 - EP); **D01D 7/00** (2013.01 - EP); **D01D 13/00** (2013.01 - CN); **D01D 13/02** (2013.01 - CN EP)

Citation (applicant)
WO 2015198698 A1 20151230 - TMT MACHINERY INC [JP]

Citation (search report)
• [I] US 2009049669 A1 20090226 - LENNEMANN FRIEDRICH [DE], et al
• [A] DE 10117087 A1 20011011 - BARMAG BARMER MASCHF [DE]
• [A] US 4043718 A 19770823 - TAKENAKA YOSHISUKE, et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3392383 A1 20181024; **EP 3392383 B1 20191106**; CN 108728919 A 20181102; CN 108728919 B 20220322; JP 2018178318 A 20181115; JP 6841710 B2 20210310; TW 201839194 A 20181101; TW I716678 B 20210121

DOCDB simple family (application)
EP 18166776 A 20180411; CN 201810250794 A 20180326; JP 2017081488 A 20170417; TW 107111638 A 20180402