

Title (en)
AN INTEGRATED SYSTEM AND A METHOD FOR ENHANCING EFFICIENCY AND QUALITY IN TEXTILE YARN MANUFACTURING PROCESS

Title (de)
INTEGRIERTES SYSTEM UND VERFAHREN ZUR VERBESSERUNG DER EFFIZIENZ UND QUALITÄT IN EINEM
TEXTILFADENFADENHERSTELLUNGSPROZESS

Title (fr)
SYSTÈME INTÉGRÉ ET PROCÉDÉ POUR AMÉLIORER L'EFFICACITÉ ET LA QUALITÉ DE PROCESSUS DE FABRICATION DE FIL TEXTILE

Publication
EP 3009388 A2 20160420 (EN)

Application
EP 15186546 A 20150923

Priority
IN 4846CH2014 A 20140929

Abstract (en)
An integrated sensing, control and resurrecting system for yarn breakage and other defects occurrences in a ring spinning machine is provided. Accordingly, a Control system (2) integrating an individual spindle monitoring system (1) and a transportation system (3) is provided. The transportation system can navigate and facilitate movement of work force attending to the yarn breakage and other defects upon detection by the spindle monitoring system, and the information related to yarn breakage occurrence and other defects in the spindles being sensed by the yarn monitoring system and communicated to the transporting system. The transportation system is capable of carrying both personnel and required textile material traversing along the entire longitudinal axis of the ring spinning machine for attending to the yarn breakage and other defects and ensuring quicker restoration of the yarn spinning process of the spindle of the ring spinning machine and also eliminating the production of inferior yarns due to other defects. The transportation system can be effectively used for multiple ring spinning machines for attending to yarn breakage occurrences and other defects.

IPC 8 full level
B65H 54/26 (2006.01); **D01H 13/00** (2006.01); **D01H 13/14** (2006.01); **D01H 13/16** (2006.01)

CPC (source: EP)
D01H 13/145 (2013.01); **D01H 13/165** (2013.01)

Citation (applicant)
US 5170954 A 19921215 - DERICHS JOSEF [DE]

Cited by
EP3293595A1; CN110033852A; EP3293295A1; CN112904042A; CN114779727A; CN110175659A; EP3754064A1; US11866854B2

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 3009388 A2 20160420; **EP 3009388 A3 20160803**; CN 105463641 A 20160406

DOCDB simple family (application)
EP 15186546 A 20150923; CN 201510632908 A 20150929