

Title (en)
YARN BREAKAGE SENSOR FOR TEXTILE APPARATUSES

Title (de)
GARNBRUCHSENSOR FÜR TEXTILVORRICHTUNG

Title (fr)
CAPTEUR DE TENSION DE FIL POUR APPAREILS DE TEXTILE

Publication
EP 3403961 B1 20200708 (EN)

Application
EP 18167173 A 20180413

Priority
IT 201700053150 A 20170517

Abstract (en)
[origin: EP3403961A1] A yarn breakage sensor for textile apparatuses, which comprises: - a body (20), - a rod (24) which is adapted to engage the yarn (Y) with a portion (24a) thereof and is pivoted to the body (20) about an axis (A) in order to rotate from a first position to a second position following yarn breakage, - detection means, comprising a first detection element (30) which is integral with the rod (24) and a second detection element (32) which is integral with the body (20) and is arranged substantially along the trajectory of the first detection element (30) in order to face it, with the rod (24) in said second position, and generate a corresponding breakage signal, either said first detection element (30) or said second detection element (32) is supported in a position that can be adjusted substantially along the trajectory of the first detection element (30) by adjustable support means (36).

IPC 8 full level
B65H 63/028 (2006.01); **D01H 13/32** (2006.01); **D04B 15/48** (2006.01); **D04B 35/14** (2006.01)

CPC (source: CN EP)
B65H 63/028 (2013.01 - CN EP); **D01H 13/32** (2013.01 - EP); **D04B 15/484** (2013.01 - EP); **D04B 35/14** (2013.01 - EP);
B65H 2701/31 (2013.01 - EP)

Citation (opposition)
Opponent : MEMMINGER-IRO GmbH
• CN 102888705 A 20130123 - JIANGSU JINLONG TECHNOLOGY CO LTD
• US 3867592 A 19750218 - QUELLOS ANTONIO SALA
• US 3689963 A 19720912 - FREI KARL
• US 3438188 A 19690415 - BOGGS BERYL A
• WO 2008017319 A1 20080214 - MEMMINGER IRO GMBH [DE], et al
• CN 2825677 Y 20061011 - ZHANG RUSHAN [CN]
• GB 2058150 A 19810408 - FREI GMBH & CO GEB
• US 3896640 A 19750729 - PALENCER JACQUES
• EP 0224797 A1 19870610 - IRO AB [SE]
• CN 204211930 U 20150318 - QUANZHOU YONGQI PLASTIC ELECTRON CO LTD
• CN 201186989 Y 20090128 - RUSHAN ZHANG [CN]
• DE 9404514 U1 19940519 - WIECHERT STEUERUNGSBAU GMBH [DE]
• DE 69319388 T2 19990304 - BTR INT SPA [IT]
• DE 19932483 A1 20010118 - MEMMINGER IRO GMBH [DE]
• ANONYMOUS: "Reed Technologie", STANDEX MEDER - DATENBUCH, 20 November 2014 (2014-11-20), XP055796682, Retrieved from the Internet <URL:https://standelectronic.com/wp-content/uploads/SME_Reed_Technologie_Datenbuch_DE.pdf>
• ALLEGRO: "HALL - EFFEKT IC APPLICATION GUIDE", ALLEGRO - APPLICATION NOTE 27701B, 1987, pages 1 - 36, XP055796684

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

DOCDB simple family (publication)
EP 3403961 A1 20181121; EP 3403961 B1 20200708; CN 108946327 A 20181207; CN 108946327 B 20210727; IT 201700053150 A1 20181117

DOCDB simple family (application)
EP 18167173 A 20180413; CN 201810347789 A 20180418; IT 201700053150 A 20170517