

Title (en)

Apparatus for inspecting top end stops of slide fastener

Title (de)

Vorrichtung zum Prüfen von oberen Endgliedern eines Reissverschlusses

Title (fr)

Dispositif d'inspection des butées d'extrémité supérieure d'une fermeture à glissière

Publication

EP 0641529 B1 19990721 (EN)

Application

EP 94112927 A 19940818

Priority

JP 25621993 A 19930907

Abstract (en)

[origin: EP0641529A2] An apparatus (13) for automatically inspecting top end stops (2) of a slide fastener (1) while the slide fastener (1) is fed by pulling it by grippers (9) toward a discharge station, with a slider (6) having a pull tab (7) and a bottom end stop (5) attached to the slide fastener (1), wherein an image sensor or camera (14) is disposed adjacent to the feed path on an upstream side of the discharge station to read an image of the top end stops (2) for inspecting an attached condition of the top end stops (2) effected on data of the image read by the camera (14) using an image-processing technique, and a fastener support unit (16) is disposed in the feed path upstream of the camera (14) for supporting a portion of the slide fastener (1) in the vicinity of the bottom end stop (5) to keep the slide fastener (1) stable while the image of the top end stops (2) is read by the camera (14). <IMAGE>

IPC 1-7

A44B 19/60

IPC 8 full level

A44B 19/42 (2006.01); **A44B 19/60** (2006.01)

CPC (source: EP KR)

A44B 19/42 (2013.01 - KR); **A44B 19/60** (2013.01 - EP KR)

Designated contracting state (EPC)

FR NL

DOCDB simple family (publication)

EP 0641529 A2 19950308; **EP 0641529 A3 19960424**; **EP 0641529 B1 19990721**; AU 668832 B2 19960516; AU 7031594 A 19950323; BR 9403044 A 19950502; CN 1115847 A 19960131; FI 944114 A0 19940907; FI 944114 A 19950308; JP 2926296 B2 19990728; JP H0775603 A 19950320; KR 950007749 A 19950415; KR 970000801 B1 19970120; SG 44860 A1 19971219; TW 272119 B 19960311; ZA 946879 B 19950424

DOCDB simple family (application)

EP 94112927 A 19940818; AU 7031594 A 19940817; BR 9403044 A 19940905; CN 94115115 A 19940906; FI 944114 A 19940907; JP 25621993 A 19930907; KR 19940022364 A 19940906; SG 1996008870 A 19940818; TW 83107819 A 19940825; ZA 946879 A 19940907