

Title (en)

Slide fastener with separable bottom end stop

Title (de)

Reissverschluss mit einem unteren teilbaren Endanschlag

Title (fr)

Fermeture à glissière à butée d'arrêt inférieure séparable

Publication

**EP 1459643 A2 20040922 (EN)**

Application

**EP 04005825 A 20040311**

Priority

JP 2003077524 A 20030320

Abstract (en)

This invention relates to a slide fastener with a separable bottom end stop which enables a reinforcement portion of the separable bottom end stop to be sewed securely thereby preventing ribs at a sewing position from being damaged by a sewing needle. A reinforcement portion (10) is formed integrally on a lower half portion of each of a box pin (8) and an insert pin (9) of the separable bottom end stop using synthetic resin such that it is exposed on the fastener tape (3). The reinforcement portion (10) is constituted of an auxiliary member (11) and ribs (13) formed at a sewing position (40) to be sewed to a sewing object. The rib (13) is formed such that its height is 0.5 to 0.85 mm and its width is 0.6 to 0.9 mm and that it is expanded gradually from a vertex to a base portion. A gap portion (23), which is wider than the base portion of the rib (13), is formed between adjoining ribs (13). Thus, the rib (13) avoids strike of a sewing needle to prevent itself from being damaged by the sewing needle and the gap portion (23) ensures sewing of the fastener tape onto the sewing object. <IMAGE>

IPC 1-7

**A44B 19/38**

IPC 8 full level

**A44B 19/38** (2006.01)

CPC (source: EP KR US)

**A44B 19/38** (2013.01 - EP KR US); **Y10T 24/2511** (2015.01 - EP US)

Cited by

EP3578074A4; EP3578072A4; US11083255B2; US11089846B2; US11206901B2; US11406165B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1459643 A2 20040922; EP 1459643 A3 20050810; EP 1459643 B1 20071024**; AT E376370 T1 20071115; BR PI0400814 A 20050524; CN 1275555 C 20060920; CN 1531886 A 20040929; DE 602004009628 D1 20071206; DE 602004009628 T2 20080207; ES 2294382 T3 20080401; HK 1065928 A1 20050311; JP 2004283300 A 20041014; KR 100538508 B1 20051223; KR 20040082978 A 20040930; MX PA04002471 A 20040923; PL 1459643 T3 20080331; TW 200423892 A 20041116; TW I243035 B 20051111; US 2004181919 A1 20040923

DOCDB simple family (application)

**EP 04005825 A 20040311**; AT 04005825 T 20040311; BR PI0400814 A 20040318; CN 200410030166 A 20040319; DE 602004009628 T 20040311; ES 04005825 T 20040311; HK 04108863 A 20041110; JP 2003077524 A 20030320; KR 20040018626 A 20040319; MX PA04002471 A 20040316; PL 04005825 T 20040311; TW 93105742 A 20040304; US 79769704 A 20040310