

Title (en)
A PLASTIC ZIPPER HAVING PREVENTING FUNCTION AGAINST UNFAIRLY UNSEALING, AND THE MANUFACTURING METHOD AND MANUFACTURING APPARATUS THEREOF

Title (de)
KUNSTSTOFFREISSVERSCHLUSS ZUR VERHINDERUNG UNBEFUGTEN ÖFFNENS UND HERSTELLUNGSVERFAHREN UND HERSTELLUNGSVORRICHTUNG DAFÜR

Title (fr)
ATTACHE EN PLASTIQUE DISPOSANT D'UNE FONCTION EMPÊCHANT TOUTE OUVERTURE NON AUTORISÉE ET PROCÉDÉ ET DISPOSITIF PERMETTANT DE PRODUIRE UNE TELLE ATTACHE

Publication
EP 1941990 A4 20081119 (EN)

Application
EP 05785596 A 20050926

Priority
• JP 2005017586 W 20050926
• JP 2005016823 W 20050913

Abstract (en)
[origin: EP1941990A1] In a plastic zipper 1 having a pair of engaging portions 1A and 1B formed on surfaces of plastic films F, a plastic zipper having preventing function against unfairly unsealing is provided wherein a tear tape 5 is detachably welded to the top surfaces at mouth side of the plastic zipper in a longitudinal direction of the plastic zipper, and thus, it can be ascertained at a glance that it is unsealed unfairly or erroneously. The plastic zipper is guided between two guide rails 3A and 3B, disposed in parallel to each other and forming a space therebetween, and pairs of guide rollers 2A and 2B, and a tear-tape having easily peelable plastic layer formed on one surface thereof is guided to the space between the guide rails 3A and 3B, and then, both of them are welded together by hot stamping by means of a heating member.

IPC 8 full level
B31B 1/90 (2006.01); **A44B 19/16** (2006.01); **B65D 33/25** (2006.01)

CPC (source: EP US)
A44B 19/10 (2013.01 - EP US); **B65D 33/2508** (2013.01 - EP US); **B65D 33/2533** (2013.01 - EP US); **B65D 33/2541** (2013.01 - EP US); **B31B 70/8133** (2017.07 - EP US); **B65D 2401/05** (2020.05 - EP US); **Y10T 24/2514** (2015.01 - EP US)

Citation (search report)
• [XA] US 5902047 A 19990511 - YEAGER JAMES W [US]
• [X] US 5669715 A 19970923 - DOBRESKI DAVID V [US], et al
• [X] US 2004025308 A1 20040212 - KASAI JUICHI [JP]
• [A] US 6115892 A 20000912 - MALIN ART [US], et al
• See references of WO 2007032093A1

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EP 05785596 A 20050926; CN 200580051557 A 20050926; JP 2005017586 W 20050926; US 6669208 A 20080313