

Title (en)  
Zipper bag and a slider for opening/closing the bag

Title (de)  
Beutel mit Reißverschluss und Schieber dafür

Title (fr)  
Sac avec fermeture à glissière et curseur

Publication  
**EP 0941937 A1 19990915 (EN)**

Application  
**EP 99103782 A 19990226**

Priority  
• JP 6366098 A 19980313  
• JP 13067398 A 19980513  
• JP 19145998 A 19980707  
• JP 33252898 A 19981124

Abstract (en)  
A slider (10A) which has a center leg (11) and a pair of side legs (21), and a zipper bag (1) provided with the slider. The zipper bag has a zipper composed of a concave portion (4A) and a convex portion (4B) which are formed on flaps and are capable of engaging with each other. The center leg (11) of the slider works to open the zipper, and the side legs (21) of the slider work to close the zipper. Also, the slider may have a cutter portion so as to cut a sealed portion of a bag. <IMAGE>

IPC 1-7  
**B65D 33/25**; **A44B 19/26**

IPC 8 full level  
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CPC (source: EP KR US)  
**B65D 33/00** (2013.01 - KR); **B65D 33/2508** (2013.01 - EP KR US); **A44B 19/267** (2013.01 - EP)

Citation (search report)  
• [X] US 5713669 A 19980203 - THOMAS TOBY R [US], et al  
• [X] US 5211482 A 19930518 - TILMAN PAUL A [US]  
• [A] AT 299845 B 19720710 - ASF GLEITVERSCHLUSS GMBH [DE]  
• [A] GB 1012988 A 19651215 - E P S RES & DEV LTD  
• [A] US 3660875 A 19720509 - GUTMAN ISAJ  
• [A] DE 3208245 A1 19830915 - ASF GLEITVERSCHLUSS GMBH [DE]

Cited by  
EP1129955A3; EP2241512A3; EP1550615A4; US6474866B2; FR2841876A1; GB2391260B; FR2817843A1; EP1295803A3; FR2855153A1; GB2418706A; GB2418706B; US6899461B2; US7313846B2; US6637937B2; WO0215733A1; WO03033359A3; WO2004103842A3; WO0153158A3; US8075187B2; US7461434B2; US7246944B2; US7506416B2; US7574782B2; US6572266B2; US6866420B2; JP2001247137A

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