

Title (en)  
FASTENER ATTACHING TOOL AND FASTENER CLIP FOR USE THEREWITH.

Title (de)  
VORRICHTUNG ZUM ANBRINGEN EINES VERSCHLUSSELEMENTS UND DAMIT VERWENDETE VERSCHLUSSKLAMMER.

Title (fr)  
OUTIL DE POSE D'ELEMENT DE FIXATION ET ATTACHE ASSOCIEE.

Publication  
**EP 0677993 A1 19951025 (EN)**

Application  
**EP 94903616 A 19931210**

Priority  
• US 9312112 W 19931210  
• US 98920192 A 19921211  
• US 98919792 A 19921211

Abstract (en)  
[origin: WO9413167A1] A fastener attaching tool (51, 101) and fastener clip (11, 131) for use therewith. The fastener clip (11, 131) includes a plurality of fasteners (13, 133) which may be used, for example, in attaching a button to a garment or a piece of fabric, each fastener (13, 133) comprising a filament having a foot (17-1, 137) at one end. The fastener clip (11, 131) also comprises at least one runner bar (19-1, 141), each fastener (13, 133) being connected to the runner bar (19-1, 141) by a severable connector post (23-1, 143). The fastener attaching tool (51, 101) includes a pair of needles (57-1, 57-2). Each needle (57-1, 57-2) has a knife edge formed on its side which is adapted to sever a connector post (23-1, 143) from its associated runner bar (19-1, 141). The fastener attaching tool (51, 101) also includes an ejector mechanism (61) which is slidably mounted back and forth within the body of the fastener attaching tool (51-101) and is rearwardly biased by a spring (59). The ejector mechanism is manually operable from the rear of the body of the fastener attaching tool (51-101) and includes a pair of ejector rods (93-1, 93-2) which are slidable back and forth within the bores of the needles (57-1, 57-2).

IPC 1-7  
**A44B 9/02**; **A43D 69/00**

IPC 8 full level  
**A44B 1/00** (2006.01); **A41H 37/00** (2006.01); **A41H 37/04** (2006.01); **A41H 37/10** (2006.01); **A43D 69/00** (2006.01); **A43D 100/08** (2006.01); **A44B 1/18** (2006.01); **A44B 9/02** (2006.01); **D05B 97/10** (2006.01)

CPC (source: EP KR)  
**A41H 37/008** (2013.01 - EP); **A43D 100/08** (2013.01 - EP); **A44B 1/185** (2013.01 - EP); **A44B 9/02** (2013.01 - KR); **D05B 97/10** (2013.01 - EP)

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 9413167 A1 19940623**; AT E193967 T1 20000715; AU 5749894 A 19940704; AU 678424 B2 19970529; BR 9307628 A 19990831; CA 2151258 A1 19940623; CA 2151258 C 19980929; DE 69328905 D1 20000727; DE 69328905 T2 20010118; EP 0677993 A1 19951025; EP 0677993 A4 19960207; EP 0677993 B1 20000621; FI 952860 A0 19950609; FI 952860 A 19950713; JP H08507329 A 19960806; KR 950703878 A 19951117; NZ 259250 A 19970129

DOCDB simple family (application)  
**US 9312112 W 19931210**; AT 94903616 T 19931210; AU 5749894 A 19931210; BR 9307628 A 19931210; CA 2151258 A 19931210; DE 69328905 T 19931210; EP 94903616 A 19931210; FI 952860 A 19950609; JP 51446494 A 19931210; KR 19950702381 A 19950610; NZ 25925093 A 19931210