Title (en)

Caulking apparatus for button elements.

Title (de

Maschine zum Ansetzen von Knöpfen.

Title (fr)

Machine de sertissage pour éléments de bouton.

Publication

EP 0549969 A2 19930707 (EN)

Application

EP 92121471 A 19921217

Priority

JP 34575791 A 19911227

Abstract (en)

An apparatus of a compact structure for caulking upper and lower elements of a fastener wherein an upper fastener element feeding mechanism can be exactly associated with a caulking mechanism in the caulking portion and wherein a caulking force can be easily and surely adjusted. An apparatus for respectively feeding upper and lower button elements by means of individual pushers (3, 4) into a lower pocket of a punch (1) and a pocket on the upper face of a die and caulking the upper and lower button elements integrally by the downward movement of the punch (1) comprises, a driving cylinder (8) which is directly driven with a predetermined delay by vertical movement of the punch (1), a cam member (14) which is vertically moved in synchronism with reciprocation of the driving cylinder (8), a swing lever (18) which is swung in association with pivotal movement of the cam member (14), and a pusher (3) for feeding the upper button element, of which one end is pivoted to the swing lever (8) and the tip of the other end is reciprocated between the lower pocket of the punch (1) and a stand-by position. Favourably, the apparatus includes the driving cylinder (8) including a compression air pressure regulating means and the lower button element feeding pusher (4) being provided with a driving cylinder (2). <IMAGE>

IPC 1-7

A41H 37/00

IPC 8 full level

A44B 17/00 (2006.01); A41H 37/00 (2006.01); A41H 37/02 (2006.01)

CPC (source: EP)

A41H 37/00 (2013.01)

Cited by

CN102687925A

Designated contracting state (EPC)

BE DE FR GB

DOCDB simple family (publication)

EP 0549969 A2 19930707; **EP 0549969 A3 19940216**; **EP 0549969 B1 19960522**; CN 1077099 A 19931013; CN 1084605 C 20020515; DE 69210978 D1 19960627; DE 69210978 T2 19961128; HK 126897 A 19970919; JP H05176807 A 19930720

DOCDB simple family (application)

EP 92121471 A 19921217; CN 92115161 A 19921226; DE 69210978 T 19921217; HK 126897 A 19970626; JP 34575791 A 19911227