

Title (en)
Thermo-cementing and folding machine.

Title (de)
Heissklebe- und Faltmaschine.

Title (fr)
Machine à coller à chaud et à rabattre.

Publication
EP 0110591 A1 19840613 (EN)

Application
EP 83306752 A 19831107

Priority
• GB 8233504 A 19821124
• GB 8233506 A 19821124

Abstract (en)
In a thermo-cementing and folding machine, a gear pump (26) operates to supply adhesive at a rate which is dependent upon the speed of rotation of a main drive shaft, by which workpiece feeding means of the machine is driven. The machine has also means (S6, 46 to 50) for varying the rate of feed of a workpiece by the workpiece feeding means without varying the speed of rotation of the main drive shaft. The ratio of the rotational speed of the shaft to the operating rate of the pump (26) is varied in response to variation of the workpiece feed rate. This arrangement is achieved by computer control (E, RAM, ADC, CPU, O/P, SMD), the gear pump (26) being driven by a stepping motor (M) for this purpose. In addition, at the end of each work cycle, use of a stepping motor facilitates 'suck back' of adhesive, and a 'fast forward' adhesive upon initiation of the next work cycle.

IPC 1-7
A43B 7/22

IPC 8 full level
A43D 8/40 (2006.01); **A43D 25/18** (2006.01)

CPC (source: EP)
A43D 8/40 (2013.01); **A43D 25/183** (2013.01)

Citation (applicant)
GB 1452969 A 19761020 - BOCCA A, et al

Citation (search report)
• GB 1452969 A 19761020 - BOCCA A, et al
• DE 2057210 A1 19720706 - HANKE & CO SCHUHMASCHINEN
• DE 1785580 B2 19770428
• US 4192033 A 19800311 - PECK ALAN M [GB], et al

Cited by
US5271348A; EP0132286A3; GB2349183A; EP0154441A1; FR2586175A1; EP0340695A3; US11370596B1; US9833807B2; US11746656B1; WO2004007133A1; US10105729B1; US10722914B1; US11420225B1; US11738364B1; US9833808B1; US10814344B1; US11364517B1; US10583454B1; US11292025B1; US11648581B1; US12017247B1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0110591 A1 19840613; **EP 0110591 B1 19861015**; BR 8306549 A 19840703; DE 3366822 D1 19861120; ES 527775 A0 19841116; ES 8500558 A1 19841116

DOCDB simple family (application)
EP 83306752 A 19831107; BR 8306549 A 19831124; DE 3366822 T 19831107; ES 527775 A 19831123