

Title (en)  
A load equalising device

Title (de)  
Pressdruckausgleichvorrichtung

Title (fr)  
Dispositif d'égalisation de charge

Publication  
**EP 0972576 A3 20040714 (EN)**

Application  
**EP 99113376 A 19990710**

Priority  
IT VI980137 A 19980715

Abstract (en)  
[origin: EP0972576A2] The invention provides a load equalising device for engraved rollers and doctor blades for use in a spreading machine for spreading or printing, the spreading machine being preferably suitable for use in the tanning and textile industries for depositing covering products such as pigments, resins, glues and the like on hide fabric or other types of stock, the spreading machine comprising a transport mechanism for the stock and a distribution assembly for the coating product to be deposited on the surface of the stock, the spreading machine preferably having a roller guide unit or doctor blade guide unit (1) mounted on a movable bridge (2), connected by a bolt (3) to the fixed structure of the machine and provided with a spider (4) which positions in sequence one of the engraved rollers (5) or doctor blades to face the belt (6) carrying the stock to be treated; the load equalising device being characterised in that it is constructed such that when the roller (5) or the blade (15) is positioned in the work area, in such a manner as to face the impression roller or the carrier belt, the roller (5) or the blade (15) while being attached to the spider is held by two lateral spring supports (7), the two lateral spring supports (7) being adjustable to equalise the load exerted on the engraved roller or doctor blade in operation as a consequence of its weight, or the weight of the support structure or other components present on the bridge, and to equalise variations in the width of the gap at a restricted zone (10) caused by variations in thickness of the stock or by elastic yield of the components of the machine, thereby to maintain the contact pressure exerted by the roller or blade on the stock to be treated at a substantially constant and pre-set value. <IMAGE>

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IPC 8 full level  
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**B05C 11/025** (2013.01); **B05C 11/04** (2013.01); **C14B 1/56** (2013.01); **D06B 15/00** (2013.01)

Citation (search report)  
• [A] GB 646566 A 19501122 - MOUNT HOPE MACHINERY LTD  
• [A] GB 760127 A 19561031 - ERIC BODE

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EP4006175A1

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AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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**EP 0972576 A2 20000119**; **EP 0972576 A3 20040714**; **EP 0972576 B1 20050921**; AT E304901 T1 20051015; DE 69927322 D1 20060202; DE 69927322 T2 20060629; IT VI980137 A1 20000115; TR 199901654 A2 20000221

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