Title (en)
A method of and apparatus for printing on metal sheets.

Title (de)
Vorrichtung und Verfahren zum Bedrucken von Metallplatten.

Title (fr)
Procédé et dispositif à imprimer sur des plaques métalliques.

Publication
EP 0412720 B1 19941207 (EN)

Application
EP 90308512 A 19900802

Priority
GB 8918175 A 19890809

Abstract (en)
[origin: EP0412720A2] Sheet-fed metal decorating presses, which pass sheets successively between cylinders in mutual rolling contact, have pushed the sheets at virtually the same speed as the constant peripheral speed of the cylinders into contact with cyclically-moveable stops on one of the cylinders which stops are so pivoted inside the periphery of the cylinder that as they retract their tangential speed is appreciably less than the peripheral speed of the cylinders. The sheets are therefore abruptly decelerated and must be pushed with high force to accelerate them back to the speed of the cylinders before entering the nip, causing several disadvantages. These are avoided by pushing the sheets at a higher speed than the constant peripheral speed of the cylinders (101, 102), and by pivoting the stops (107) about an axis (109) outside the periphery of the cylinder (102) so that they move relative to the cylinder in a substantially involute path whereby their tangential speed as they retract is substantially the same as the peripheral speed of the cylinders. As there is then no need to accelerate the sheets they can advantageously be pushed with lower force.

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B41F 7/16; B41F 21/12

IPC 8 full level
B41F 7/16 (2006.01); **B41F 21/12** (2006.01)

CPC (source: EP)
B41F 7/16 (2013.01); **B41F 21/12** (2013.01)

Cited by
DE102012211784A1; DE102012211783A1; WO2014005812A1; WO2014005811A1; US5339731A; EP0596337A1; CN104487250A; EP0502481A1; US5253583A; CN104703799A

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DOCDB simple family (publication)
EP 0412720 A2 19910213; **EP 0412720 A3 19910508**; **EP 0412720 B1 19941207**; DE 412720 T1 19911017; DE 69014762 D1 19950119; DE 69014762 T2 19950413; GB 8918175 D0 19890920

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EP 90308512 A 19900802; DE 69014762 T 19900802; DE 90308512 T 19900802; GB 8918175 A 19890809