

Title (en)
Punching machine with a device for lubricating the punching region

Title (de)
Stanze mit einer Vorrichtung zum Schmieren des Stanzbereiches

Title (fr)
Poinçonneuse avec dispositif pour lubrifier la region de poinçonnage

Publication
EP 0979691 A1 20000216 (EN)

Application
EP 98830307 A 19980520

Priority
EP 98830307 A 19980520

Abstract (en)
A punching machine (100) having: at least one punchholder (2) in turn having a channel (14a, 10, 8a, 4a, 4b) for feeding a lubricant/compressed air mixture to a punching region (ZP) on a metal sheet (34); piping means (51) for connecting the channel (14a, 10, 8a, 4a, 4b) to a source (50) of atomized lubricant; and on/off valve means (52) for selectively permitting or preventing supply of the atomized lubricant to the piping means (51) and the channel (14a, 10, 8a, 4a, 4b); the valve means (52) being controlled, via a device (41), by the position in space of an element (2), which position in space is detected by means of a probe (36); and the punching machine (100) being characterized in that the probe (36) detects the vertical position of the punchholder (2). <IMAGE>

IPC 1-7
B21D 37/18

IPC 8 full level
B21D 37/18 (2006.01)

CPC (source: EP)
B21D 37/18 (2013.01)

Citation (search report)
• [X] US 4977804 A 19901218 - NAITO KINSHIRO [JP]
• [A] JP S5533889 A 19800310 - ANRITSU ELECTRIC CO LTD

Cited by
CN115255138A; GB2361453A; GB2361453B; US7757372B2

Designated contracting state (EPC)
DE GB IT

DOCDB simple family (publication)
EP 0979691 A1 20000216; EP 0979691 B1 20020213; DE 69803846 D1 20020321

DOCDB simple family (application)
EP 98830307 A 19980520; DE 69803846 T 19980520