

Title (en)  
DRAWING MACHINE COMPRISING AN ELECTROHYDRAULIC DRAWING JAW CONTROL

Title (de)  
ZIEHMASCHINE MIT EINER ELEKTROHYDRAULISCHEN ZIEHBACKENSTEUERUNG

Title (fr)  
MACHINE D'ÉTIRAGE COMPRENANT UNE COMMANDE ÉLECTROHYDRAULIQUE DE MÂCHOIRE D'ÉTIRAGE

Publication  
**EP 3921096 B1 20230405 (DE)**

Application  
**EP 20704450 A 20200204**

Priority  
• DE 102019201372 A 20190204  
• EP 2020052651 W 20200204

Abstract (en)  
[origin: WO2020161090A1] The invention relates to an apparatus for controlling a drawing machine (1) having one or more drawing carriages (2, 3), each having one or more hydraulic clamping jaw closing cylinders (7, 8, 9) for opening and closing corresponding clamping jaws, which drawing carriages are designed to grip a workpiece by closing the clamping jaws and to draw said workpiece through a forming die, the apparatus having: a hydraulic block (11), which is hydraulically connected to the clamping jaw closing cylinders (7, 8, 9) and is designed to actuate the clamping jaw closing cylinder (7, 8, 9) by modifying the hydraulic pressure applied thereto; a machine controller (12), which is designed to determine one or more nominal values of the pressure (Psoll) for pressing the drawing jaws and to output said one or more nominal values to the hydraulic block (11).

IPC 8 full level  
**B21C 1/28** (2006.01)

CPC (source: EP)  
**B21C 1/28** (2013.01)

Citation (opposition)  
Opponent : EJP Maschinen GmbH  
• DE 102013105629 A1 20141204 - SANDVIK MAT TECH DEUTSCHLAND [DE]  
• IT UA20164496 A1 20171201 - TECNOPRESS S R L  
• DE 10249071 B3 20040115 - BEBECO TECHNOLOGIE GMBH [DE]  
• DE 19857781 A1 20000608 - MANNESMANN AG [DE]  
• DE 3130820 C1 19830825 - SCHUMAG GMBH  
• EJP: "One Combined Drawing Machine CDS 300/60", OPERATION INSTRUCTION PROJECT 1596, 1 May 2015 (2015-05-01), XP093121854, [retrieved on 20240121]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**DE 102019201372 A1 20200806**; EP 3921096 A1 20211215; EP 3921096 B1 20230405; MA 56009 A 20220406; WO 2020161090 A1 20200813

DOCDB simple family (application)  
**DE 102019201372 A 20190204**; EP 2020052651 W 20200204; EP 20704450 A 20200204; MA 56009 A 20200204