

Title (en)

Continuous drawing method for straight drawing operations and device that employs the method.

Title (de)

Kontinuierliches Ziehverfahren zum Geradeziehen und Vorrichtung zur Durchführung des Verfahrens.

Title (fr)

Procédé d'étirage continu pour l'étirage droit et dispositif à cet effet.

Publication

EP 0433767 A1 19910626 (EN)

Application

EP 90123300 A 19901205

Priority

IT 8354189 A 19891219

Abstract (en)

Continuous drawing method and device (10) straight drawing operations, whereby the drawing is carried out with a pair of tracked or chain means (12-112) that bear drawing clamps (15-115), the tracked or chain means (12-112) comprising means (17-18-19) to adjust the distance between centres of the tracked or chain means (12-112) in relation to a drawing axis (13) so as to adapt that distance to the various drawing diameters, the adjustment of the distance between centres of the tracked or chain means (12-112) and the final clamping of the material being drawn between the drawing clamps (15-115) taking place in at least two working steps, the first of these at least two steps providing for the approach of the tracked or chain means (12-112) to the drawing axis (13) with substantially mechanical methods and advantageously bringing one of the two tracked or chain means (12-112) to its final drawing position, whereas the other tracked or chain means (12-112) is halted at a position separated by a desired amount from its final position, while the second of at least two steps arranges for the final positioning of that other tracked or chain means (12-112) by means of an actuation with a fluid. The device (10) comprising the following working units: first displacement means (21-121) connected to the means (17-18-19) that adjust the distance between centres, second displacement means (22-122) slidably coupled to the first displacement means (21-121) and connected to their respective tracked or chain means (12-112), and a chamber (23) to hold fluid, which is positioned between the first (21-121) and second (22-122) displacement means and can be filled momentarily with fluid under pressure. I

IPC 1-7

B21C 1/30

IPC 8 full level

B21C 1/30 (2006.01)

CPC (source: EP)

B21C 1/30 (2013.01)

Citation (search report)

- [A] US 2797798 A 19570702 - WILLIAM HALLDEN KARL
- [A] US 2642280 A 19530616 - FISK GUSTAF L

Cited by

CN105665457A; CN105537300A; DE19727699A1; CN105537299A; CN109877382A; DE19936742A1; EP0645200A1; DE19708709C1; EP0860216A1; US7743911B2; WO2005092533A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR LI LU NL SE

DOCDB simple family (publication)

EP 0433767 A1 19910626; EP 0433767 B1 19940928; AT E112189 T1 19941015; DE 69012966 D1 19941103; DE 69012966 T2 19950202; ES 2063885 T3 19950116; IT 1236458 B 19930309; IT 8983541 A0 19891219; IT 8983541 A1 19910619

DOCDB simple family (application)

EP 90123300 A 19901205; AT 90123300 T 19901205; DE 69012966 T 19901205; ES 90123300 T 19901205; IT 8354189 A 19891219