

Title (en)
METHOD AND DEVICE FOR PRODUCING PRESSURE-ROLLED PIPES WITH THICKENED INNER WALL SECTIONS AT THE ENDS

Title (de)
VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON DRÜCKGEWALZTEN ROHREN MIT INNEREN WANDVERDICKUNGEN AN DEN ENDEN

Title (fr)
PROCEDE ET DISPOSITIF PERMETTANT DE PRODUIRE DES TUYAUX FLUOTOURNES, A EXTREMITES A PAROIS INTERIEURES EPAISSIES

Publication
EP 0850114 A1 19980701 (DE)

Application
EP 96931011 A 19960904

Priority

- DE 19532951 A 19950907
- EP 9603870 W 19960904

Abstract (en)
[origin: US6038901A] PCT No. PCT/EP96/03870 Sec. 371 Date Sep. 1, 1998 Sec. 102(e) Date Sep. 1, 1998 PCT Filed Sep. 4, 1996 PCT Pub. No. WO97/09135 PCT Pub. Date Mar. 13, 1997A method for producing press-rolled tubes (3) with a press mandrel (1) and one or more pressure rollers (2), with the tube (3) being arranged between the press mandrel (1) and the pressure rollers (2) and being plastically deformed by means of force loading of the pressure rollers (2). To produce tubes with end wall thickenings, in a first working operation, a first press mandrel (1a) with a tailstock-end shoulder (4) is used. The pressure rollers (2) begin their transforming work at the tailstock-end shoulder (4) and work in the direction of the machine spindle. The half-finished tube (3a) is taken from the first press mandrel (1a), and, in a second working operation, the half-finished tube (3a) is clamped at the end with the wall thickening (5) which has already produced into a lathe chuck (6) (tensioning spindle or similar) mounted in the press-rolling machine, and a second press mandrel (1b), fastened on the tailstock end and having an outer diameter (d2) which corresponds to the inner diameter of the wall thickening, is pushed into the half-finished tube (3a). Then the pressure rollers (2) form the second wall thickening from the tailstock-end in the direction of the machine-spindle end.

IPC 1-7
B21D 22/16

IPC 8 full level
B21C 37/20 (2006.01); **B21D 22/16** (2006.01); **B21H 7/18** (2006.01)

CPC (source: EP KR US)
B21C 37/20 (2013.01 - EP US); **B21D 22/16** (2013.01 - EP KR US); **B21H 7/187** (2013.01 - EP US)

Citation (search report)
See references of WO 9709135A1

Cited by
US4703124A; CN109433897A

Designated contracting state (EPC)
AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)
US 6038901 A 20000321; AT E195274 T1 20000815; CA 2228570 A1 19970313; CN 1195306 A 19981007; CZ 48098 A3 19990512; DE 19532951 A1 19970313; DE 59605725 D1 20000914; EP 0850114 A1 19980701; EP 0850114 B1 20000809; JP H11512028 A 19991019; KR 19990044435 A 19990625; MX 9801793 A 19980830; WO 9709135 A1 19970313

DOCDB simple family (application)
US 2922298 A 19980901; AT 96931011 T 19960904; CA 2228570 A 19960904; CN 96196793 A 19960904; CZ 48098 A 19960904; DE 19532951 A 19950907; DE 59605725 T 19960904; EP 9603870 W 19960904; EP 96931011 A 19960904; JP 51085997 A 19960904; KR 19980701682 A 19980306; MX 9801793 A 19980306