

Title (en)

Machine of variable linear structure for the formation of tubes

Title (de)

Maschine mit variabler linearer Struktur zur Formung von Rohren

Title (fr)

Machine à structure linéaire variable pour la formation de tuyaux

Publication

EP 2165779 A1 20100324 (EN)

Application

EP 09169379 A 20090903

Priority

IT MI20081662 A 20080918

Abstract (en)

The machine (1) for the formation of tubes (2) comprises at least, in series with each other, forming stations (3, 3') comprising pairs of idle rollers (8, 8') which make rototranslational movements of the same amplitude but in opposite directions, and at least one finishing station (5) comprising four idle rollers (91) having a concave profile with a constant curvature and able to perform rototranslational movements of the same amplitude and direction according to 90° axes. The lower rollers (8') of each forming station (3, 3') have an elliptical profile with a curvature decreasing from the outer edge to the inner edge of said roller (8'). The upper rollers (8) of the first forming station (3) have an elliptical profile with a curvature increasing from the outer edge to the inner edge of said roller (8); the upper rollers (8") of the forming stations (3') subsequent to the first (3) have a circular profile.

IPC 8 full level

B21D 5/08 (2006.01); **B21D 5/12** (2006.01)

CPC (source: EP)

B21C 37/08 (2013.01); **B21D 5/12** (2013.01)

Citation (applicant)

EP 1393830 A1 20040303 - OLIMPIA 80 SRL [IT]

Citation (search report)

- [AD] EP 1393830 A1 20040303 - OLIMPIA 80 SRL [IT]
- [A] EP 0988905 A2 20000329 - KUSAKABE ELECTRIC & MACH CO [JP]
- [A] DE 2529466 A1 19760219 - HUETTE KREMS GES MBH KREMS [AT], et al

Designated contracting state (EPC)

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 SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2165779 A1 20100324; **EP 2165779 B1 20141231**; BR PI0903482 A2 20100720; CN 101676043 A 20100324; CN 101676043 B 20140716; ES 2533660 T3 20150413; IT 1392055 B1 20120209; IT MI20081662 A1 20100319; RU 2009134904 A 20110327; RU 2498872 C2 20131120

DOCDB simple family (application)

EP 09169379 A 20090903; BR PI0903482 A 20090917; CN 200910174777 A 20090917; ES 09169379 T 20090903; IT MI20081662 A 20080918; RU 2009134904 A 20090917