

Title (en)

Drawing unit for drawing of elongated products and drawing machine

Title (de)

Zugeinheit zum Ziehen von langgestrecktem Material sowie Ziehstrasse

Title (fr)

Unité d'étirage de produits allongés et dispositif d'étirage

Publication

EP 1256392 A3 20031008 (DE)

Application

EP 02009515 A 20020426

Priority

DE 10122658 A 20010510

Abstract (en)

[origin: EP1256392A2] Drawing unit comprises: (a) a track module (6a) connected to a further track module (6b) to form a through track; and (b) a holding element module (10a) to stop a drawing tool. The drive for each drawing carriage of the unit comprises a linear motor for independent movement along the track, in which the track is part of the linear motor. An Independent claim is also included for a drawing train containing the drawing units.

IPC 1-7

B21C 1/30; **B21C 1/16**

IPC 8 full level

B21C 1/20 (2006.01); **B21C 1/16** (2006.01); **B21C 1/22** (2006.01); **B21C 1/28** (2006.01); **B21C 1/30** (2006.01)

CPC (source: EP KR US)

B21C 1/16 (2013.01 - EP US); **B21C 1/20** (2013.01 - KR); **B21C 1/30** (2013.01 - EP US); **B21C 1/305** (2013.01 - EP US)

Citation (search report)

- [A] DD 80421 A
- [A] DE 29802989 U1 19980618 - WEEBER VOLKER DIPL ING [DE]
- [A] DE 2806380 A1 19790823 - MANNESMANN AG

Cited by

EP1514617A1; WO2015090270A3

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1256392 A2 20021113; **EP 1256392 A3 20031008**; **EP 1256392 B1 20050119**; AT E287300 T1 20050215; CA 2385403 A1 20021110; CA 2385403 C 20090915; CN 1223413 C 20051019; CN 1385257 A 20021218; DE 10122658 A1 20030102; DE 10122658 C2 20030528; DE 50202026 D1 20050224; JP 2002346628 A 20021203; JP 3975116 B2 20070912; KR 100848536 B1 20080725; KR 20020086233 A 20021118; PL 200577 B1 20090130; PL 353764 A1 20021118; RU 2245203 C2 20050127; US 2002189314 A1 20021219; US 6688152 B2 20040210

DOCDB simple family (application)

EP 02009515 A 20020426; AT 02009515 T 20020426; CA 2385403 A 20020508; CN 02122191 A 20020510; DE 10122658 A 20010510; DE 50202026 T 20020426; JP 2002134473 A 20020509; KR 20020024598 A 20020504; PL 35376402 A 20020508; RU 2002112420 A 20020508; US 14372602 A 20020509