

Title (en)
Drive unit for draw benches.

Title (de)
Antrieb für Ziehbänke.

Title (fr)
Entraînement pour bancs d'étirage.

Publication
EP 0255740 A1 19880210 (EN)

Application
EP 87201277 A 19870704

Priority
IT 8339186 A 19860806

Abstract (en)
Drive unit for draw benches which is suitable to provide carriages (24) bearing draw grippers (27) with a required, coordinated to-and-fro movement, a radial cam (13) cooperating with each carriage (24) and pressing on a roller (14) borne on a first shaft (15) able to move axially with a first rack (16) with which a pinion (17) is engaged that is coaxial with and solidly fixed to a gearing-up gear wheel (18) acting on a second rack (25) included on the carriage (24), a desired preferred ratio existing between the pinion (17) and the gear wheel (18), the pinion (17) and gear wheel (18) having an axis which is rotary but not displaceable.

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)
• [AD] GB 824056 A 19591125 - FRITZ SINGER
• [AD] US 3693395 A 19720926 - GREVEN JOHANN
• [AD] US 2126453 A 19380809 - CRILEY WILLIAM W, et al
• [AD] US 2234728 A 19410311 - GAINES FREDERICK W
• [AD] GB 2018658 A 19791024 - MANNESMANN AG
• [A] DE 444479 C 19270518 - WILHELM HELSPER
• [A] EP 0001073 A1 19790321 - FORST MASCHF OSWALD [DE]

Cited by
US5540372A; WO2006028921A3

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

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EP 0255740 A1 19880210; EP 0255740 B1 19910327; AT E61950 T1 19910415; DE 3768875 D1 19910502; IT 1201802 B 19890202;
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