

Title (en)
AUTOMATIC DRAWING DEVICE

Title (de)
AUTOMATISCHE ZIEHVORRICHTUNG

Title (fr)
DISPOSITIF D'ETIRAGE AUTOMATIQUE

Publication
EP 0814921 A1 19980107 (FR)

Application
EP 96908170 A 19960321

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Abstract (en)
[origin: WO9630136A1] A drawing device (1) comprises a drawing unit (7) and a traction device (16), and is characterised in that (a) the traction device (16) has two driving belts, (b) the drawing device has an automatic engagement means (19), and (c) the automatic engagement means (19) has an auxiliary traction means (20) power driven by said traction device (16). The invention includes a drawing line with several drawing devices.

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IPC 8 full level
B21C 1/22 (2006.01); **B21C 1/30** (2006.01)

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B21C 1/22 (2013.01 - EP KR US); **B21C 1/30** (2013.01 - EP US)

Citation (third parties)
Third party :
WO 9734250 A1 19970918 - GEMPLUS CARD INT [FR], et al

Cited by
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DOCDB simple family (publication)
WO 9630136 A1 19961003; AR 001272 A1 19971008; AU 5150696 A 19961016; AU 701404 B2 19990128; BR 9607744 A 19980623; CA 2214020 A1 19961003; CA 2214020 C 20051206; CN 1082405 C 20020410; CN 1179119 A 19980415; CO 4520113 A1 19971015; DE 69601357 D1 19990225; DE 69601357 T2 19990527; DZ 2004 A1 20020720; EG 20904 A 20000628; EP 0814921 A1 19980107; EP 0814921 B1 19990113; ES 2126394 T3 19990316; FR 2731925 A1 19960927; FR 2731925 B1 19970523; HK 1002175 A1 19980807; HU 224599 B1 20051128; HU P9800808 A2 19980728; HU P9800808 A3 20000628; IL 117509 A0 19960723; IL 117509 A 19990817; IN 188011 B 20020810; JP 3066807 B2 20000717; JP H10511046 A 19981027; KR 100287029 B1 20010416; KR 19980702721 A 19980805; MX 9706903 A 19971129; MY 116647 A 20040331; PE 22697 A1 19970719; PL 179893 B1 20001130; PL 322308 A1 19980119; RU 2133649 C1 19990727; SI 0814921 T1 19990831; SK 127697 A3 19980114; SK 284696 B6 20050908; TN SN96041 A1 19981231; TR 199701022 T1 19980121; TW 315332 B 19970911; UA 45395 C2 20020415; US 5660071 A 19970826; YU 16796 A 19980814; YU 49216 B 20041125; ZA 962329 B 19960927

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