

Title (en)
Feeding device

Title (de)
Vorschubvorrichtung

Title (fr)
Dispositif d'avance

Publication
EP 1640084 B1 20070411 (DE)

Application
EP 05021192 A 20050928

Priority
DE 102004047048 A 20040928

Abstract (en)
[origin: EP1640084A2] There are several longitudinally-moving clamping units (16) with clamp jaws (20,22) gripping the moving band (12). A belt (68) with teeth on the inside and outside goes round toothed wheels at the ends of the belt run. The clamping units are fastened to the belt and are released when they go round the end wheels. An electric motor (13) drives the clamping system via a reduction gear (14).

IPC 8 full level
B21D 43/10 (2006.01); **B21C 1/30** (2006.01); **B21F 23/00** (2006.01)

CPC (source: EP)
B21C 1/30 (2013.01); **B21D 43/10** (2013.01); **B21D 43/12** (2013.01); **B21F 23/002** (2013.01); **B21F 23/005** (2013.01)

Cited by
FR2924367A1; CN106425645A; ES2552584A1; CN113333643A; CN107159808A; CN105328065A; DE102009017003A1; WO2010136509A3; WO2009013017A1; WO2010136531A3; US7900803B2; US9056345B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1640084 A2 20060329; EP 1640084 A3 20060405; EP 1640084 B1 20070411; AT E359136 T1 20070515; AT E386599 T1 20080315; DE 102004047048 A1 20060406; DE 502005000577 D1 20070524; DE 502005002906 D1 20080403; EP 1676655 A1 20060705; EP 1676655 B1 20080220; ES 2285622 T3 20071116; ES 2301107 T3 20080616; PL 1640084 T3 20070928; PL 1676655 T3 20080731

DOCDB simple family (application)
EP 05021192 A 20050928; AT 05021192 T 20050928; AT 06006565 T 20050928; DE 102004047048 A 20040928; DE 502005000577 T 20050928; DE 502005002906 T 20050928; EP 06006565 A 20050928; ES 05021192 T 20050928; ES 06006565 T 20050928; PL 05021192 T 20050928; PL 06006565 T 20050928