

Title (en)
Graphic arts die and support plate assembly

Title (de)
Graphische Druckplatten und Halteplatten

Title (fr)
Ensemble plaque-support et matrice d'arts graphiques

Publication
EP 1714784 A2 20061025 (EN)

Application
EP 05010755 A 20050518

Priority
US 10960505 A 20050420

Abstract (en)
A graphic arts die (14) and support plate assembly (10) is provided that is adapted to be mounted as a unit on the chase (50,150) of a flat bed or rotary graphic arts press. The assembly (10) includes a plurality of spaced individual dies (14) fixedly mounted in predetermined relative relationship on a support plate member (12) of the unit. Alignment holes (38) in each die that register with orifices (40) in the support plate member are adapted to receive temporary alignment pins thereby assuring correct positioning of the dies (14) with respect to one another on the support plate member until the dies are affixed to the support plate member (12). Makeready and die lock-up time of the press is significantly decreased because all dies of the assembly may be preregistered with a design artwork before mounting of the die and support assembly on the press. A series of graphic arts die (210) units are also provided that are adapted to be mounted as an assembly encompassing more than 180° of the circumference of a rotary press chase (250). The graphic arts die units have die support plate members (212a,b,c,d) that may be aligned with indicia on the press chase (250), and that have notch structure (270) receiving a tool (274) for facilitating alignment and spacing between adjacent die support plate members. Cutouts (316) in the die support plate members (312) permit manual selective shifting of a die (314) relative to the die support plate member (312) therefor using a tool (318) received in a cutout (316) and engageable with the die (314).

IPC 8 full level
B41F 27/04 (2006.01); **B26D 7/26** (2006.01)

CPC (source: EP)
B26D 7/2628 (2013.01); **B41F 27/04** (2013.01); **B26D 2007/2607** (2013.01); **B41P 2219/32** (2013.01)

Citation (applicant)
• US 6658978 B1 20031209 - JOHNSON MICHAEL J [US]
• EP 1457297 A2 20040915 - LINHARDT KARL GMBH [DE]

Cited by
US11587802B2; CN103144413A; EP2551114A1; US11311923B2; GB2547560A; GB2547560B; EP3791974A1; EP4186608A3; WO2016034904A1

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 MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR LV MK YU

DOCDB simple family (publication)
EP 1714784 A2 20061025; EP 1714784 A3 20061129; EP 1714784 B1 20101013; AT E484391 T1 20101015; DE 602005024110 D1 20101125; DK 1714784 T3 20110207; ES 2356199 T3 20110405; PL 1714784 T3 20110429

DOCDB simple family (application)
EP 05010755 A 20050518; AT 05010755 T 20050518; DE 602005024110 T 20050518; DK 05010755 T 20050518; ES 05010755 T 20050518; PL 05010755 T 20050518