

CPC**COOPERATIVE PATENT CLASSIFICATION****B41P****INDEXING SCHEME RELATING TO PRINTING, LINING MACHINES, TYPEWRITERS, AND TO STAMPS****NOTE**

This subclass constitutes an internal scheme for indexing only.

B41P 2200/00**Printing processes**

- B41P 2200/10 . Relief printing
- B41P 2200/11 .. Stereotype printing
- B41P 2200/12 .. Flexographic printing
- B41P 2200/13 .. Offset printing
- B41P 2200/20 . Lithography
- B41P 2200/21 .. Dry offset printing
- B41P 2200/22 .. Wet offset printing
- B41P 2200/30 . Heliography
- B41P 2200/31 .. Pad printing
- B41P 2200/312 ... multicolor
- B41P 2200/40 . Screen printing
- B41P 2200/41 .. Offset printing
- B41P 2200/42 .. Mimeographic printing, e.g. stencilling

B41P 2213/00**Arrangements for actuating or driving printing presses; Auxiliary devices or processes**

- B41P 2213/10 . Constitutive elements of driving devices ([driving reciprocating printing dies B41P 2219/10](#))
- B41P 2213/11 .. Motors
- B41P 2213/112 ... Fluid motors
- B41P 2213/114 Hydraulic motors
- B41P 2213/116 Linear hydraulic motors
- B41P 2213/118 Rotary hydraulic motors
- B41P 2213/12 Pneumatic motors
- B41P 2213/122 Linear pneumatic motors
- B41P 2213/124 ... Electric motors
- B41P 2213/126 Rotary electric motors

B41P 2213/128	Linear electric motors
B41P 2213/13	Solenoids
B41P 2213/20	..	Gearings
B41P 2213/202	...	Helical gears
B41P 2213/204	...	Bevel gears
B41P 2213/206	...	Planetary gears
B41P 2213/208	...	Harmonic drive
B41P 2213/25	..	Couplings; Clutches
B41P 2213/252	...	Synchromotives
B41P 2213/254	...	Devices allowing two gears to engage with each other
B41P 2213/256	in a fixed angular position
B41P 2213/30	..	Rotary energy transmitters, i.e. electric energy couplers
B41P 2213/302	...	using pneumatic energy, e.g. pressurised air
B41P 2213/304	...	using hydraulic energy
B41P 2213/40	.	Auxiliary devices or processes associated with the drives
B41P 2213/42	..	Vibration-dampers for machine parts (for cylinders B41F 13/08A)
B41P 2213/44	..	Noise reduction
B41P 2213/46	..	Lubrication
B41P 2213/70	.	Driving devices associated with particular installations or situations
B41P 2213/71	..	Inching drive mechanism, i.e. to obtain stepwise movement
B41P 2213/72	..	Driving devices for monocolour presses
B41P 2213/73	..	Driving devices for multicolour presses
B41P 2213/732	...	with means for deviating torque over the printing units
B41P 2213/734	...	each printing unit being driven by its own electric motor, i.e. electric shaft
B41P 2213/80	.	Means enabling or facilitating exchange of cylinders (exchanging tubular printing plates B41P 2227/20)
B41P 2213/802	..	axially
B41P 2213/804	..	radially
B41P 2213/90	.	Register control
B41P 2213/91	..	for sheet printing presses
B41P 2215/00		Screen printing machines
B41P 2215/10	.	characterised by their constructional features
B41P 2215/11	..	Registering devices
B41P 2215/112	...	with means for displacing the frame
B41P 2215/114	...	with means for displacing the article
B41P 2215/12	..	Screens

- B41P 2215/13 . . . Devices for increasing ink penetration
- B41P 2215/132 by increasing pressure above the screen
- B41P 2215/134 by increasing pressure beneath the screen
- B41P 2215/14 . . . Devices or methods for reducing snap effect
- B41P 2215/50 . . . Screen printing machines for particular purposes
- B41P 2215/55 for printing compact discs
- B41P 2215/56 for printing ceramic tiles

B41P 2217/00 Printing machines of special types or for particular purposes

- B41P 2217/10 . . . characterised by their constructional features
- B41P 2217/11 Machines with modular units, i.e. with units exchangeable as a whole
- B41P 2217/12 Machines with reversible printing units
- B41P 2217/13 Machines with double or multiple printing units for "flying" printing plates exchange
- B41P 2217/14 Machines with constructions allowing refurbishing, converting or updating existing presses
- B41P 2217/15 Machines with cylinders only supported on one side, e.g. cantilever construction
- B41P 2217/50 . . . Printing presses for particular purposes
- B41P 2217/51 for printing individualised books
- B41P 2217/52 for printing a long repeat length on webs
- B41P 2217/53 for printing on the interior of hollow articles
- B41P 2217/55 for printing compact discs
- B41P 2217/56 for printing ceramic tiles
- B41P 2217/60 Means for supporting the articles
- B41P 2217/61 internally, e.g. for mugs or goblets
- B41P 2217/62 externally, e.g. for bottles

B41P 2219/00 Printing presses using a heated printing foil

- B41P 2219/10 . . . Driving devices for the reciprocating die
- B41P 2219/11 Hydraulic or pneumatic motors
- B41P 2219/12 Electric motors
- B41P 2219/13 Gearings
- B41P 2219/132 Cams or eccentrics
- B41P 2219/134 Knee-lever
- B41P 2219/20 . . . Arrangements for moving, supporting or positioning the printing foil
- B41P 2219/21 Supports for the unwinding roll; Braking devices for the unwinding roll
- B41P 2219/22 Guiding or tensioning the printing foil
- B41P 2219/23 Winding up the printing foil

- B41P 2219/30 . Printing dies
- B41P 2219/31 . . Heating means
- B41P 2219/32 . . with means for attaching printing elements to the holder
- B41P 2219/33 . . Supports for printing dies

- B41P 2219/40 . Material or products to be decorated or printed
- B41P 2219/41 . . Web-like material
- B41P 2219/42 . . Sheet-like material
- B41P 2219/43 . . Three-dimensional articles
- B41P 2219/432 . . . Pencils
- B41P 2219/434 . . . Books, e.g. edge-gilding

- B41P 2219/50 . combined with existing presses
- B41P 2219/51 . . Converting existing presses to foil printing presses

- B41P 2219/60 . Using more than one printing foil

- B41P 2227/00 **Mounting or handling printing plates; Forming printing surfaces in situ****

- B41P 2227/10 . Attaching several printing plates on one cylinder
- B41P 2227/11 . . in axial direction
- B41P 2227/12 . . in circumferential direction

- B41P 2227/20 . Means enabling or facilitating exchange of tubular printing or impression members, e.g. printing sleeves, blankets ([attaching cylindrical printing formes B41F 27/10B](#))
- B41P 2227/21 . . Means facilitating exchange of sleeves mounted on cylinders without removing the cylinder from the press

- B41P 2227/30 . Detecting the correct position of printing plates on the cylinder

- B41P 2227/40 . Adjusting means for printing plates on the cylinder
- B41P 2227/41 . . axially
- B41P 2227/42 . . circumferentially
- B41P 2227/43 . . diagonally

- B41P 2227/50 . Devices for storing printing plates

- B41P 2227/60 . Devices for transferring printing plates
- B41P 2227/61 . . using the sheet feed system
- B41P 2227/62 . . Devices for introducing printing plates
- B41P 2227/63 . . Devices for removing printing plates

- B41P 2227/70 . Forming the printing surface directly on the form cylinder

B41P 2231/00**Inking devices; Recovering printing ink**

- B41P 2231/10 . Axially segmented ducter rollers
- B41P 2231/12 . Axially segmented ink blades
- B41P 2231/20 . Recovering printing ink
- B41P 2231/21 .. by using mixtures of ink and water or repellant

B41P 2233/00**Arrangements for the operation of printing presses**

- B41P 2233/10 . Starting-up the machine
- B41P 2233/11 .. Pre-inking
- B41P 2233/12 .. Pre-wetting
- B41P 2233/13 .. Pre-registering
- B41P 2233/20 . Safety devices preventing damage
- B41P 2233/21 .. by cutting the web in case of web break
- B41P 2233/22 .. by deviating the web in case of web break
- B41P 2233/23 .. by preventing the web winding up around cylinders
- B41P 2233/30 . Measuring or controlling the consumption of ink
- B41P 2233/50 . Marks on printed material
- B41P 2233/51 .. for colour quality control
- B41P 2233/52 .. for registering

B41P 2235/00**Cleaning**

- B41P 2235/10 . characterised by the methods or devices
- B41P 2235/12 .. using laser energy
- B41P 2235/14 .. using ultrasonic energy
- B41P 2235/20 .. Wiping devices
- B41P 2235/21 ... Scrapers, e.g. absorbent pads
- B41P 2235/22 ... Rollers
- B41P 2235/23 ... Brushes
- B41P 2235/24 ... using rolls of cleaning cloth
- B41P 2235/242 Unwinding the cleaning cloth
- B41P 2235/244 Rewinding the cleaning cloth
- B41P 2235/246 Pressing the cleaning cloth against the cylinder
- B41P 2235/26 .. Spraying devices
- B41P 2235/27 .. Suction devices

- B41P 2235/30
 - . Recovering used solvents or residues
- B41P 2235/31
 - .. by filtering
- B41P 2235/32
 - .. by distilling
- B41P 2235/33
 - .. by burning
- B41P 2235/40
 - . Cleaning restricted areas on cylinders
- B41P 2235/50
 - . Selection of materials or products for cleaning
- B41P 2251/00**
 - Details or accessories of printing machines not otherwise provided for**
- B41P 2251/10
 - . Pumps
- B41P 2251/11
 - .. Membrane pumps
- B41P 2251/112
 - .. Peristaltic pumps
- B41P 2700/00**
 - Manifolding, printing or duplicating for office purposes**
- B41P 2700/10
 - . Hectographic line duplicators
- B41P 2700/12
 - .. with single master plates