

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	...	Synchromclutches
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 13/085)
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 27/105](#))

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