

**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 ( <a href="#">for cylinders B41F 13/085</a> )
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 ( <a href="#">exchanging tubular printing plates B41P 2227/20</a> )
B41P 2213/802	..	axially
B41P 2213/804	..	radially
B41P 2213/90	.	Register control
B41P 2213/91	..	for sheet printing presses
<b>B41P 2215/00</b>		<b>Screen printing machines</b>
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