

**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	. . . Synchroclutches
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
<b>B41P 2217/00</b>	<b>Printing machines of special types or for particular purposes</b>

B41P 2217/10	<ul style="list-style-type: none"> <li>characterised by their constructional features</li> </ul>
B41P 2217/11	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Machines with modular units, i.e. with units exchangeable as a whole</li> </ul> </li> </ul>
B41P 2217/12	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Machines with reversible printing units</li> </ul> </li> </ul>
B41P 2217/13	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Machines with double or multiple printing units for "flying" printing plates exchange</li> </ul> </li> </ul>
B41P 2217/14	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Machines with constructions allowing refurbishing, converting or updating existing presses</li> </ul> </li> </ul>
B41P 2217/15	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Machines with cylinders only supported on one side, e.g. cantilever construction</li> </ul> </li> </ul>
B41P 2217/50	<ul style="list-style-type: none"> <li>Printing presses for particular purposes</li> </ul>
B41P 2217/51	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>for printing individualised books</li> </ul> </li> </ul>
B41P 2217/52	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>for printing a long repeat length on webs</li> </ul> </li> </ul>
B41P 2217/53	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>for printing on the interior of hollow articles</li> </ul> </li> </ul>
B41P 2217/55	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>for printing compact discs</li> </ul> </li> </ul>
B41P 2217/56	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>for printing ceramic tiles</li> </ul> </li> </ul>
B41P 2217/60	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Means for supporting the articles</li> </ul> </li> </ul>
B41P 2217/61	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>internally, e.g. for mugs or goblets</li> </ul> </li> </ul> </li> </ul>
B41P 2217/62	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>externally, e.g. for bottles</li> </ul> </li> </ul> </li> </ul>
<b>B41P 2219/00</b>	<b>Printing presses using a heated printing foil</b>
B41P 2219/10	<ul style="list-style-type: none"> <li>Driving devices for the reciprocating die</li> </ul>
B41P 2219/11	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Hydraulic or pneumatic motors</li> </ul> </li> </ul>
B41P 2219/12	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Electric motors</li> </ul> </li> </ul>
B41P 2219/13	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Gearings</li> </ul> </li> </ul>
B41P 2219/132	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Cams or eccentrics</li> </ul> </li> </ul> </li> </ul>
B41P 2219/134	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Knee-lever</li> </ul> </li> </ul> </li> </ul>
B41P 2219/20	<ul style="list-style-type: none"> <li>Arrangements for moving, supporting or positioning the printing foil</li> </ul>
B41P 2219/21	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Supports for the unwinding roll; Braking devices for the unwinding roll</li> </ul> </li> </ul>
B41P 2219/22	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Guiding or tensioning the printing foil</li> </ul> </li> </ul>
B41P 2219/23	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Winding up the printing foil</li> </ul> </li> </ul>
B41P 2219/30	<ul style="list-style-type: none"> <li>Printing dies</li> </ul>
B41P 2219/31	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Heating means</li> </ul> </li> </ul>
B41P 2219/32	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>with means for attaching printing elements to the holder</li> </ul> </li> </ul>
B41P 2219/33	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Supports for printing dies</li> </ul> </li> </ul>
B41P 2219/40	<ul style="list-style-type: none"> <li>Material or products to be decorated or printed</li> </ul>
B41P 2219/41	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Web-like material</li> </ul> </li> </ul>
B41P 2219/42	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Sheet-like material</li> </ul> </li> </ul>
B41P 2219/43	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Three-dimensional articles</li> </ul> </li> </ul>
B41P 2219/432	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Pencils</li> </ul> </li> </ul> </li> </ul>
B41P 2219/434	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Books, e.g. edge-gilding</li> </ul> </li> </ul> </li> </ul>
B41P 2219/50	<ul style="list-style-type: none"> <li>combined with existing presses</li> </ul>

B41P 2219/51	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Converting existing presses to foil printing presses</li> </ul> </li> </ul>
B41P 2219/60	<ul style="list-style-type: none"> <li>Using more than one printing foil</li> </ul>
<b>B41P 2227/00</b>	<b>Mounting or handling printing plates; Forming printing surfaces <u>in situ</u></b>
B41P 2227/10	<ul style="list-style-type: none"> <li>Attaching several printing plates on one cylinder</li> </ul>
B41P 2227/11	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>in axial direction</li> </ul> </li> </ul>
B41P 2227/12	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>in circumferential direction</li> </ul> </li> </ul>
B41P 2227/20	<ul style="list-style-type: none"> <li>Means enabling or facilitating exchange of tubular printing or impression members, e.g. printing sleeves, blankets (<a href="#">attaching cylindrical printing formes B41F 27/105</a>)</li> </ul>
B41P 2227/21	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Means facilitating exchange of sleeves mounted on cylinders without removing the cylinder from the press</li> </ul> </li> </ul>
B41P 2227/30	<ul style="list-style-type: none"> <li>Detecting the correct position of printing plates on the cylinder</li> </ul>
B41P 2227/40	<ul style="list-style-type: none"> <li>Adjusting means for printing plates on the cylinder</li> </ul>
B41P 2227/41	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>axially</li> </ul> </li> </ul>
B41P 2227/42	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>circumferentially</li> </ul> </li> </ul>
B41P 2227/43	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>diagonally</li> </ul> </li> </ul>
B41P 2227/50	<ul style="list-style-type: none"> <li>Devices for storing printing plates</li> </ul>
B41P 2227/60	<ul style="list-style-type: none"> <li>Devices for transferring printing plates</li> </ul>
B41P 2227/61	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>using the sheet feed system</li> </ul> </li> </ul>
B41P 2227/62	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Devices for introducing printing plates</li> </ul> </li> </ul>
B41P 2227/63	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Devices for removing printing plates</li> </ul> </li> </ul>
B41P 2227/70	<ul style="list-style-type: none"> <li>Forming the printing surface directly on the form cylinder</li> </ul>
<b>B41P 2231/00</b>	<b>Inking devices; Recovering printing ink</b>
B41P 2231/10	<ul style="list-style-type: none"> <li>Axially segmented ducter rollers</li> </ul>
B41P 2231/12	<ul style="list-style-type: none"> <li>Axially segmented ink blades</li> </ul>
B41P 2231/20	<ul style="list-style-type: none"> <li>Recovering printing ink</li> </ul>
B41P 2231/21	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>by using mixtures of ink and water or repellant</li> </ul> </li> </ul>
<b>B41P 2233/00</b>	<b>Arrangements for the operation of printing presses</b>
B41P 2233/10	<ul style="list-style-type: none"> <li>Starting-up the machine</li> </ul>
B41P 2233/11	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Pre-inking</li> </ul> </li> </ul>
B41P 2233/12	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Pre-wetting</li> </ul> </li> </ul>
B41P 2233/13	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Pre-registering</li> </ul> </li> </ul>
B41P 2233/20	<ul style="list-style-type: none"> <li>Safety devices preventing damage</li> </ul>
B41P 2233/21	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>by cutting the web in case of web break</li> </ul> </li> </ul>
B41P 2233/22	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>by deviating the web in case of web break</li> </ul> </li> </ul>
B41P 2233/23	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>by preventing the web winding up around cylinders</li> </ul> </li> </ul>
B41P 2233/30	<ul style="list-style-type: none"> <li>Measuring or controlling the consumption of ink</li> </ul>
B41P 2233/50	<ul style="list-style-type: none"> <li>Marks on printed material</li> </ul>
B41P 2233/51	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>for colour quality control</li> </ul> </li> </ul>

B41P 2233/52	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>for registering</li> </ul> </li> </ul>
<b>B41P 2235/00</b>	<b>Cleaning</b>
B41P 2235/10	<ul style="list-style-type: none"> <li>characterised by the methods or devices</li> </ul>
B41P 2235/12	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>using laser energy</li> </ul> </li> </ul>
B41P 2235/14	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>using ultrasonic energy</li> </ul> </li> </ul>
B41P 2235/20	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Wiping devices</li> </ul> </li> </ul>
B41P 2235/21	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Scrapers, e.g. absorbent pads</li> </ul> </li> </ul> </li> </ul>
B41P 2235/22	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Rollers</li> </ul> </li> </ul> </li> </ul>
B41P 2235/23	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Brushes</li> </ul> </li> </ul> </li> </ul>
B41P 2235/24	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>using rolls of cleaning cloth</li> </ul> </li> </ul> </li> </ul>
B41P 2235/242	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Unwinding the cleaning cloth</li> </ul> </li> </ul> </li> </ul> </li> </ul>
B41P 2235/244	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Rewinding the cleaning cloth</li> </ul> </li> </ul> </li> </ul> </li> </ul>
B41P 2235/246	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Pressing the cleaning cloth against the cylinder</li> </ul> </li> </ul> </li> </ul> </li> </ul>
B41P 2235/26	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Spraying devices</li> </ul> </li> </ul>
B41P 2235/27	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Suction devices</li> </ul> </li> </ul>
B41P 2235/30	<ul style="list-style-type: none"> <li>Recovering used solvents or residues</li> </ul>
B41P 2235/31	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>by filtering</li> </ul> </li> </ul>
B41P 2235/32	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>by distilling</li> </ul> </li> </ul>
B41P 2235/33	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>by burning</li> </ul> </li> </ul>
B41P 2235/40	<ul style="list-style-type: none"> <li>Cleaning restricted areas on cylinders</li> </ul>
B41P 2235/50	<ul style="list-style-type: none"> <li>Selection of materials or products for cleaning</li> </ul>
<b>B41P 2251/00</b>	<b>Details or accessories of printing machines not otherwise provided for</b>
B41P 2251/10	<ul style="list-style-type: none"> <li>Pumps</li> </ul>
B41P 2251/11	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Membrane pumps</li> </ul> </li> </ul>
B41P 2251/112	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>Peristaltic pumps</li> </ul> </li> </ul>
<b>B41P 2700/00</b>	<b>Manifolding, printing or duplicating for office purposes</b>
B41P 2700/10	<ul style="list-style-type: none"> <li>Hectographic line duplicators</li> </ul>
B41P 2700/12	<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>with single master plates</li> </ul> </li> </ul>