

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.

2200/00	Printing processes		
2200/10	. Relief printing	2213/71	. . Inching drive mechanism, i.e. to obtain stepwise movement
2200/11	. . Stereotype printing	2213/72	. . Driving devices for monocolour presses
2200/12	. . Flexographic printing	2213/73	. . Driving devices for multicolour presses
2200/13	. . Offset printing	2213/732	. . . with means for deviating torque over the printing units
2200/20	. Lithography	2213/734	. . . each printing unit being driven by its own electric motor, i.e. electric shaft
2200/21	. . Dry offset printing	2213/80	. Means enabling or facilitating exchange of cylinders (exchanging tubular printing plates B41P 2227/20)
2200/22	. . Wet offset printing	2213/802	. . axially
2200/30	. Heliography	2213/804	. . radially
2200/31	. . Pad printing	2213/90	. Register control
2200/312	. . . multicolor	2213/91	. . for sheet printing presses
2200/40	. Screen printing		
2200/41	. . Offset printing	2215/00	Screen printing machines
2200/42	. . Mimeographic printing, e.g. stencilling	2215/10	. characterised by their constructional features
2213/00	Arrangements for actuating or driving printing presses; Auxiliary devices or processes	2215/11	. . Registering devices
2213/10	. Constitutive elements of driving devices (driving reciprocating printing dies B41P 2219/10)	2215/112	. . . with means for displacing the frame
2213/11	. . Motors	2215/114	. . . with means for displacing the article
2213/112	. . . Fluid motors	2215/12	. . Screens
2213/114	. . . . Hydraulic motors	2215/13	. . Devices for increasing ink penetration
2213/116	. . . . . Linear hydraulic motors	2215/132	. . . by increasing pressure above the screen
2213/118	. . . . . Rotary hydraulic motors	2215/134	. . . by increasing pressure beneath the screen
2213/12	. . . . Pneumatic motors	2215/14	. . Devices or methods for reducing snap effect
2213/122	. . . . . Linear pneumatic motors	2215/50	. Screen printing machines for particular purposes
2213/124	. . . . Electric motors	2215/55	. . for printing compact discs
2213/126	. . . . . Rotary electric motors	2215/56	. . for printing ceramic tiles
2213/128	. . . . . Linear electric motors		
2213/13	. . . . Solenoids	2217/00	Printing machines of special types or for particular purposes
2213/20	. . Gearings	2217/10	. characterised by their constructional features
2213/202	. . . Helical gears	2217/11	. . Machines with modular units, i.e. with units exchangeable as a whole
2213/204	. . . Bevel gears	2217/12	. . Machines with reversible printing units
2213/206	. . . Planetary gears	2217/13	. . Machines with double or multiple printing units for "flying" printing plates exchange
2213/208	. . . Harmonic drive	2217/14	. . Machines with constructions allowing refurbishing, converting or updating existing presses
2213/25	. . Couplings; Clutches	2217/15	. . Machines with cylinders only supported on one side, e.g. cantilever construction
2213/252	. . . Synchroclutches	2217/50	. Printing presses for particular purposes
2213/254	. . . Devices allowing two gears to engage with each other	2217/51	. . for printing individualised books
2213/256	. . . . in a fixed angular position	2217/52	. . for printing a long repeat length on webs
2213/30	. . Rotary energy transmitters, i.e. electric energy couplers	2217/53	. . for printing on the interior of hollow articles
2213/302	. . . using pneumatic energy, e.g. pressurised air	2217/55	. . for printing compact discs
2213/304	. . . using hydraulic energy	2217/56	. . for printing ceramic tiles
2213/40	. Auxiliary devices or processes associated with the drives	2217/60	. . Means for supporting the articles
2213/42	. . Vibration-dampers for machine parts (for cylinders B41F 13/085)	2217/61	. . . internally, e.g. for mugs or goblets
2213/44	. . Noise reduction	2217/62	. . . externally, e.g. for bottles
2213/46	. . Lubrication		
2213/70	. Driving devices associated with particular installations or situations	2219/00	Printing presses using a heated printing foil

- 2219/10 . Driving devices for the reciprocating die
- 2219/11 . . Hydraulic or pneumatic motors
- 2219/12 . . Electric motors
- 2219/13 . . Gearings
- 2219/132 . . . Cams or eccentrics
- 2219/134 . . . Knee-lever
- 2219/20 . Arrangements for moving, supporting or positioning the printing foil
- 2219/21 . . Supports for the unwinding roll; Braking devices for the unwinding roll
- 2219/22 . . Guiding or tensioning the printing foil
- 2219/23 . . Winding up the printing foil
- 2219/30 . Printing dies
- 2219/31 . . Heating means
- 2219/32 . . with means for attaching printing elements to the holder
- 2219/33 . . Supports for printing dies
- 2219/40 . Material or products to be decorated or printed
- 2219/41 . . Web-like material
- 2219/42 . . Sheet-like material
- 2219/43 . . Three-dimensional articles
- 2219/432 . . . Pencils
- 2219/434 . . . Books, e.g. edge-gilding
- 2219/50 . combined with existing presses
- 2219/51 . . Converting existing presses to foil printing presses
- 2219/60 . Using more than one printing foil

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

- 2227/10 . Attaching several printing plates on one cylinder
- 2227/11 . . in axial direction
- 2227/12 . . in circumferential direction
- 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](#))
- 2227/21 . . Means facilitating exchange of sleeves mounted on cylinders without removing the cylinder from the press
- 2227/30 . Detecting the correct position of printing plates on the cylinder
- 2227/40 . Adjusting means for printing plates on the cylinder
- 2227/41 . . axially
- 2227/42 . . circumferentially
- 2227/43 . . diagonally
- 2227/50 . Devices for storing printing plates
- 2227/60 . Devices for transferring printing plates
- 2227/61 . . using the sheet feed system
- 2227/62 . . Devices for introducing printing plates
- 2227/63 . . Devices for removing printing plates
- 2227/70 . Forming the printing surface directly on the form cylinder

2231/00 Inking devices; Recovering printing ink

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

2233/00 Arrangements for the operation of printing presses

- 2233/10 . Starting-up the machine
- 2233/11 . . Pre-inking
- 2233/12 . . Pre-wetting

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

2235/00 Cleaning

- 2235/10 . characterised by the methods or devices
- 2235/12 . . using laser energy
- 2235/14 . . using ultrasonic energy
- 2235/20 . . Wiping devices
- 2235/21 . . . Scrapers, e.g. absorbent pads
- 2235/22 . . . Rollers
- 2235/23 . . . Brushes
- 2235/24 . . . using rolls of cleaning cloth
- 2235/242 Unwinding the cleaning cloth
- 2235/244 Rewinding the cleaning cloth
- 2235/246 Pressing the cleaning cloth against the cylinder
- 2235/26 . . Spraying devices
- 2235/27 . . Suction devices
- 2235/30 . Recovering used solvents or residues
- 2235/31 . . by filtering
- 2235/32 . . by distilling
- 2235/33 . . by burning
- 2235/40 . Cleaning restricted areas on cylinders
- 2235/50 . Selection of materials or products for cleaning

2251/00 Details or accessories of printing machines not otherwise provided for

- 2251/10 . Pumps
- 2251/11 . . Membrane pumps
- 2251/112 . . Peristaltic pumps

2700/00 Manifold, printing or duplicating for office purposes

- 2700/10 . Hectographic line duplicators
- 2700/12 . . with single master plates