

CPC COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

PRINTING

B41 **PRINTING; LINING MACHINES; TYPEWRITERS; STAMPS** ([reproduction or duplication of pictures or patterns by scanning and converting into electrical signals H04N](#))

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

2217/13	. . Machines with double or multiple printing units for "flying" printing plates exchange	2227/43	. . diagonally
2217/14	. . Machines with constructions allowing refurbishing, converting or updating existing presses	2227/50	. Devices for storing printing plates
2217/15	. . Machines with cylinders only supported on one side, e.g. cantilever construction	2227/60	. Devices for transferring printing plates
2217/50	. Printing presses for particular purposes	2227/61	. . using the sheet feed system
2217/51	. . for printing individualised books	2227/62	. . Devices for introducing printing plates
2217/52	. . for printing a long repeat length on webs	2227/63	. . Devices for removing printing plates
2217/53	. . for printing on the interior of hollow articles	2227/70	. Forming the printing surface directly on the form cylinder
2217/55	. . for printing compact discs		
2217/56	. . for printing ceramic tiles	2231/00	Inking devices; Recovering printing ink
2217/60	. . Means for supporting the articles	2231/10	. Axially segmented ducter rollers
2217/61	. . . internally, e.g. for mugs or goblets	2231/12	. Axially segmented ink blades
2217/62	. . . externally, e.g. for bottles	2231/20	. Recovering printing ink
		2231/21	. . by using mixtures of ink and water or repellant
2219/00	Printing presses using a heated printing foil	2233/00	Arrangements for the operation of printing presses
2219/10	. Driving devices for the reciprocating die	2233/10	. Starting-up the machine
2219/11	. . Hydraulic or pneumatic motors	2233/11	. . Pre-inking
2219/12	. . Electric motors	2233/12	. . Pre-wetting
2219/13	. . Gearings	2233/13	. . Pre-registering
2219/132	. . . Cams or eccentrics	2233/20	. Safety devices preventing damage
2219/134	. . . Knee-lever	2233/21	. . by cutting the web in case of web break
2219/20	. Arrangements for moving, supporting or positioning the printing foil	2233/22	. . by deviating the web in case of web break
2219/21	. . Supports for the unwinding roll; Braking devices for the unwinding roll	2233/23	. . by preventing the web winding up around cylinders
2219/22	. . Guiding or tensioning the printing foil	2233/30	. Measuring or controlling the consumption of ink
2219/23	. . Winding up the printing foil	2233/50	. Marks on printed material
2219/30	. Printing dies	2233/51	. . for colour quality control
2219/31	. . Heating means	2233/52	. . for registering
2219/32	. . with means for attaching printing elements to the holder		
2219/33	. . Supports for printing dies	2235/00	Cleaning
2219/40	. Material or products to be decorated or printed	2235/10	. characterised by the methods or devices
2219/41	. . Web-like material	2235/12	. . using laser energy
2219/42	. . Sheet-like material	2235/14	. . using ultrasonic energy
2219/43	. . Three-dimensional articles	2235/20	. . Wiping devices
2219/432	. . . Pencils	2235/21	. . . Scrapers, e.g. absorbent pads
2219/434	. . . Books, e.g. edge-gilding	2235/22	. . . Rollers
2219/50	. combined with existing presses	2235/23	. . . Brushes
2219/51	. . Converting existing presses to foil printing presses	2235/24	. . . using rolls of cleaning cloth
2219/60	. Using more than one printing foil	2235/242	. . . . Unwinding the cleaning cloth
		2235/244	. . . . Rewinding the cleaning cloth
2227/00	Mounting or handling printing plates; Forming printing surfaces <u>in situ</u>	2235/246	. . . . Pressing the cleaning cloth against the cylinder
2227/10	. Attaching several printing plates on one cylinder	2235/26	. . Spraying devices
2227/11	. . in axial direction	2235/27	. . Suction devices
2227/12	. . in circumferential direction	2235/30	. Recovering used solvents or residues
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)	2235/31	. . by filtering
2227/21	. . Means facilitating exchange of sleeves mounted on cylinders without removing the cylinder from the press	2235/32	. . by distilling
2227/30	. Detecting the correct position of printing plates on the cylinder	2235/33	. . by burning
2227/40	. Adjusting means for printing plates on the cylinder	2235/40	. Cleaning restricted areas on cylinders
2227/41	. . axially	2235/50	. Selection of materials or products for cleaning
2227/42	. . circumferentially		
		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	Manifolding, printing or duplicating for office purposes
		2700/10	. Hectographic line duplicators
		2700/12	. . with single master plates