# CPC COOPERATIVE PATENT CLASSIFICATION

## B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

#### **PRINTING**

## **PRINTING; LINING MACHINES; TYPEWRITERS; STAMPS**

# B41P INDEXING SCHEME RELATING TO PRINTING, LINING MACHINES, TYPEWRITERS, AND TO STAMPS

#### **NOTE**

2213/304 . . . using hydraulic energy

This subclass constitutes an internal scheme for indexing only.

| 2200/00  | Printing processes  | 2213/40   | Auxiliary devices or processes associated with the  |
|--|---|---|---|
| 2200/10  | Relief printing   |   | drives  |
| 2200/11  | Stereotype printing   | 2213/42   | Vibration-dampers for machine parts   |
| 2200/12  | Flexographic printing   | 2213/44   | Noise reduction   |
| 2200/13  | Offset printing   | 2213/46   | Lubrication   |
| 2200/20  | . Lithography   | 2213/70   | Driving devices associated with particular  |
| 2200/21  | Dry offset printing   |   | installations or situations   |
| 2200/22  | Wet offset printing   | 2213/71   | Inching drive mechanism, i.e. to obtain stepwise  |
| 2200/30  | Heliography   | 2212/52   | movement  |
| 2200/31  | Pad printing  | 2213/72   | . Driving devices for monocolour presses  |
| 2200/312   | multicolor  | 2213/73   | . Driving devices for multicolour presses   |
| 2200/40  | Screen printing   | 2213/732  | with means for deviating torque over the  |
| 2200/41  | Offset printing   | 2212/724  | printing units  |
| 2200/42  | Mimeographic printing, e.g. stencilling   | 2213/734  | <ul> <li>each printing unit being driven by its own<br/>electric motor, i.e. electric shaft</li> </ul>  |
| 2213/00  | Arrangements for actuating or driving printing  | 2213/80   | Means enabling or facilitating exchange of cylinders  |
|  | presses; Auxiliary devices or processes   |   | (exchanging tubular printing plates <u>B41P 2227/20</u> )   |
| 2213/10  | Constitutive elements of driving devices (driving)  | 2213/802  | axially   |
|  | reciprocating printing dies <u>B41P 2219/10</u> )   | 2213/804  | radially  |
| 2213/11  | Motors  | 2213/90   | . Register control  |
| 2213/112   | Fluid motors  | 2213/91   | for sheet printing presses  |
| 2213/114   | Hydraulic motors  |   |   |
|  | -   | 2215/00   | Screen printing machines  |
| 2213/116   | Linear hydraulic motors   | <b>2215/00</b> 2215/10  | Screen printing machines  characterised by their constructional features  |
| 2213/116<br>2213/118   | Linear hydraulic motors Rotary hydraulic motors   | 2215/10   | . characterised by their constructional features  |
| 2213/116<br>2213/118<br>2213/12  | Linear hydraulic motors Rotary hydraulic motors Pneumatic motors  | 2215/10<br>2215/11  | <ul><li>characterised by their constructional features</li><li>Registering devices</li></ul>  |
| 2213/116<br>2213/118<br>2213/12<br>2213/122  | Linear hydraulic motors     Rotary hydraulic motors     Pneumatic motors     Linear pneumatic motors  | 2215/10<br>2215/11<br>2215/112  | <ul> <li>characterised by their constructional features</li> <li>Registering devices</li> <li>with means for displacing the frame</li> </ul>  |
| 2213/116<br>2213/118<br>2213/12<br>2213/122<br>2213/124  | Linear hydraulic motors     Rotary hydraulic motors     Pneumatic motors     Linear pneumatic motors     Electric motors  | 2215/10<br>2215/11<br>2215/112<br>2215/114  | <ul> <li>characterised by their constructional features</li> <li>Registering devices</li> <li>with means for displacing the frame</li> <li>with means for displacing the article</li> </ul>   |
| 2213/116<br>2213/118<br>2213/12<br>2213/122<br>2213/124<br>2213/126  | <ul> <li>Linear hydraulic motors</li> <li>Rotary hydraulic motors</li> <li>Pneumatic motors</li> <li>Linear pneumatic motors</li> <li>Electric motors</li> <li>Rotary electric motors</li> </ul>  | 2215/10<br>2215/11<br>2215/112<br>2215/114<br>2215/12   | <ul> <li>characterised by their constructional features</li> <li>Registering devices</li> <li>with means for displacing the frame</li> <li>with means for displacing the article</li> <li>Screens</li> </ul>  |
| 2213/116<br>2213/118<br>2213/12<br>2213/122<br>2213/124<br>2213/126<br>2213/128  | <ul> <li> Linear hydraulic motors</li> <li> Rotary hydraulic motors</li> <li> Pneumatic motors</li> <li> Linear pneumatic motors</li> <li> Electric motors</li> <li> Rotary electric motors</li> <li> Linear electric motors</li> </ul>   | 2215/10<br>2215/11<br>2215/112<br>2215/114<br>2215/12<br>2215/13  | <ul> <li>characterised by their constructional features</li> <li>Registering devices</li> <li>with means for displacing the frame</li> <li>with means for displacing the article</li> <li>Screens</li> <li>Devices for increasing ink penetration</li> </ul>  |
| 2213/116<br>2213/118<br>2213/12<br>2213/122<br>2213/124<br>2213/126<br>2213/128<br>2213/13   | <ul> <li> Linear hydraulic motors</li> <li> Rotary hydraulic motors</li> <li> Pneumatic motors</li> <li> Linear pneumatic motors</li> <li> Electric motors</li> <li> Rotary electric motors</li> <li> Linear electric motors</li> <li> Solenoids</li> </ul>   | 2215/10<br>2215/11<br>2215/112<br>2215/114<br>2215/12<br>2215/13<br>2215/132  | <ul> <li>characterised by their constructional features</li> <li>Registering devices</li> <li>with means for displacing the frame</li> <li>with means for displacing the article</li> <li>Screens</li> <li>Devices for increasing ink penetration</li> <li>by increasing pressure above the screen</li> </ul>   |
| 2213/116<br>2213/118<br>2213/12<br>2213/122<br>2213/124<br>2213/126<br>2213/128<br>2213/13<br>2213/20  | <ul> <li> Linear hydraulic motors</li> <li> Rotary hydraulic motors</li> <li> Pneumatic motors</li> <li> Linear pneumatic motors</li> <li> Electric motors</li> <li> Rotary electric motors</li> <li> Linear electric motors</li> <li> Solenoids</li> <li> Gearings</li> </ul>  | 2215/10<br>2215/11<br>2215/112<br>2215/114<br>2215/12<br>2215/13<br>2215/132<br>2215/134  | <ul> <li>characterised by their constructional features</li> <li>Registering devices</li> <li>with means for displacing the frame</li> <li>with means for displacing the article</li> <li>Screens</li> <li>Devices for increasing ink penetration</li> <li>by increasing pressure above the screen</li> <li>by increasing pressure beneath the screen</li> </ul>  |
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| 2213/116<br>2213/118<br>2213/12<br>2213/122<br>2213/124<br>2213/126<br>2213/128<br>2213/13<br>2213/20<br>2213/202<br>2213/204  | <ul> <li> Linear hydraulic motors</li> <li> Rotary hydraulic motors</li> <li> Pneumatic motors</li> <li> Linear pneumatic motors</li> <li> Electric motors</li> <li> Rotary electric motors</li> <li> Linear electric motors</li> <li> Solenoids</li> <li> Gearings</li> <li> Helical gears</li> <li> Bevel gears</li> </ul>  | 2215/10<br>2215/11<br>2215/112<br>2215/114<br>2215/12<br>2215/13<br>2215/132<br>2215/134<br>2215/14<br>2215/50  | <ul> <li>characterised by their constructional features</li> <li>Registering devices</li> <li>with means for displacing the frame</li> <li>with means for displacing the article</li> <li>Screens</li> <li>Devices for increasing ink penetration</li> <li>by increasing pressure above the screen</li> <li>by increasing pressure beneath the screen</li> <li>Devices or methods for reducing snap effect</li> <li>Screen printing machines for particular purposes</li> </ul>   |
| 2213/116<br>2213/118<br>2213/12<br>2213/122<br>2213/124<br>2213/126<br>2213/128<br>2213/13<br>2213/20<br>2213/202<br>2213/204<br>2213/206  | <ul> <li>Linear hydraulic motors</li> <li>Rotary hydraulic motors</li> <li>Pneumatic motors</li> <li>Linear pneumatic motors</li> <li>Electric motors</li> <li>Rotary electric motors</li> <li>Linear electric motors</li> <li>Solenoids</li> <li>Gearings</li> <li>Helical gears</li> <li>Bevel gears</li> <li>Planetary gears</li> </ul>  | 2215/10<br>2215/11<br>2215/112<br>2215/114<br>2215/12<br>2215/13<br>2215/132<br>2215/134<br>2215/14<br>2215/50<br>2215/55   | <ul> <li>characterised by their constructional features</li> <li>Registering devices</li> <li>with means for displacing the frame</li> <li>with means for displacing the article</li> <li>Screens</li> <li>Devices for increasing ink penetration</li> <li>by increasing pressure above the screen</li> <li>by increasing pressure beneath the screen</li> <li>Devices or methods for reducing snap effect</li> <li>Screen printing machines for particular purposes</li> <li>for printing compact discs</li> </ul>   |
| 2213/116<br>2213/118<br>2213/12<br>2213/122<br>2213/124<br>2213/126<br>2213/128<br>2213/13<br>2213/20<br>2213/202<br>2213/204  | <ul> <li>Linear hydraulic motors</li> <li>Rotary hydraulic motors</li> <li>Pneumatic motors</li> <li>Linear pneumatic motors</li> <li>Electric motors</li> <li>Rotary electric motors</li> <li>Linear electric motors</li> <li>Solenoids</li> <li>Gearings</li> <li>Helical gears</li> <li>Bevel gears</li> <li>Planetary gears</li> <li>Harmonic drive</li> </ul>  | 2215/10<br>2215/11<br>2215/112<br>2215/114<br>2215/12<br>2215/13<br>2215/132<br>2215/134<br>2215/14<br>2215/50  | <ul> <li>characterised by their constructional features</li> <li>Registering devices</li> <li>with means for displacing the frame</li> <li>with means for displacing the article</li> <li>Screens</li> <li>Devices for increasing ink penetration</li> <li>by increasing pressure above the screen</li> <li>by increasing pressure beneath the screen</li> <li>Devices or methods for reducing snap effect</li> <li>Screen printing machines for particular purposes</li> </ul>   |
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| 2213/116<br>2213/118<br>2213/12<br>2213/122<br>2213/124<br>2213/126<br>2213/128<br>2213/13<br>2213/20<br>2213/202<br>2213/204<br>2213/206<br>2213/208<br>2213/25<br>2213/254<br>2213/254 | <ul> <li> Linear hydraulic motors</li> <li> Rotary hydraulic motors</li> <li> Pneumatic motors</li> <li> Linear pneumatic motors</li> <li> Electric motors</li> <li> Rotary electric motors</li> <li> Linear electric motors</li> <li> Solenoids</li> <li> Gearings</li> <li> Helical gears</li> <li> Bevel gears</li> <li> Planetary gears</li> <li> Harmonic drive</li> <li>. Couplings; Clutches</li> <li> Synchroclutches</li> <li> Devices allowing two gears to engage with each other</li> <li> in a fixed angular position</li> </ul>   | 2215/10<br>2215/11<br>2215/112<br>2215/114<br>2215/12<br>2215/13<br>2215/132<br>2215/134<br>2215/50<br>2215/55<br>2215/56<br>2217/00<br>2217/10<br>2217/11            | <ul> <li>characterised by their constructional features</li> <li>Registering devices</li> <li>with means for displacing the frame</li> <li>with means for displacing the article</li> <li>Screens</li> <li>Devices for increasing ink penetration</li> <li>by increasing pressure above the screen</li> <li>by increasing pressure beneath the screen</li> <li>Devices or methods for reducing snap effect</li> <li>Screen printing machines for particular purposes</li> <li>for printing compact discs</li> <li>for printing ceramic tiles</li> </ul> Printing machines of special types or for particular purposes <ul> <li>characterised by their constructional features</li> <li>Machines with modular units, i.e. with units exchangeable as a whole</li> </ul>  |
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| 2213/116<br>2213/118<br>2213/12<br>2213/122<br>2213/124<br>2213/126<br>2213/128<br>2213/13<br>2213/20<br>2213/202<br>2213/204<br>2213/206<br>2213/208<br>2213/25<br>2213/254<br>2213/254 | <ul> <li> Linear hydraulic motors</li> <li> Rotary hydraulic motors</li> <li> Pneumatic motors</li> <li> Linear pneumatic motors</li> <li> Electric motors</li> <li> Rotary electric motors</li> <li> Linear electric motors</li> <li> Solenoids</li> <li> Gearings</li> <li> Helical gears</li> <li> Bevel gears</li> <li> Planetary gears</li> <li> Harmonic drive</li> <li>. Couplings; Clutches</li> <li> Synchroclutches</li> <li> Devices allowing two gears to engage with each other</li> <li> in a fixed angular position</li> </ul>   | 2215/10<br>2215/11<br>2215/112<br>2215/114<br>2215/12<br>2215/13<br>2215/132<br>2215/134<br>2215/50<br>2215/55<br>2215/56<br>2217/00<br>2217/10<br>2217/11            | <ul> <li>characterised by their constructional features</li> <li>Registering devices</li> <li>with means for displacing the frame</li> <li>with means for displacing the article</li> <li>Screens</li> <li>Devices for increasing ink penetration</li> <li>by increasing pressure above the screen</li> <li>by increasing pressure beneath the screen</li> <li>Devices or methods for reducing snap effect</li> <li>Screen printing machines for particular purposes</li> <li>for printing compact discs</li> <li>for printing ceramic tiles</li> </ul> Printing machines of special types or for particular purposes <ul> <li>characterised by their constructional features</li> <li>Machines with modular units, i.e. with units exchangeable as a whole</li> </ul>  |

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| 2217/14  | Machines with constructions allowing   | 2227/61  | using the sheet feed system                                |
|----------|--|----------|--|
|          | refurbishing, converting or updating existing                                    | 2227/62  | Devices for introducing printing plates                    |
|          | presses  | 2227/63  | Devices for removing printing plates                       |
| 2217/15  | Machines with cylinders only supported on one side, e.g. cantilever construction | 2227/70  | Forming the printing surface directly on the form cylinder |
| 2217/50  | Printing presses for particular purposes   |          | •  |
| 2217/51  | for printing individualised books  | 2231/00  | Inking devices; Recovering printing ink                    |
| 2217/52  | for printing a long repeat length on webs  | 2231/10  | Axially segmented ducter rollers                           |
| 2217/53  | • for printing on the interior of hollow articles                                | 2231/12  | Axially segmented ink blades                               |
| 2217/55  | for printing compact discs   | 2231/20  | Recovering printing ink                                    |
| 2217/56  | • for printing ceramic tiles   | 2231/21  | • • by using mixtures of ink and water or repellant        |
| 2217/60  | Means for supporting the articles  | 2233/00  | Arrangements for the operation of printing presses         |
| 2217/61  | internally, e.g. for mugs or goblets   |          |  |
| 2217/62  | externally, e.g. for bottles   | 2233/10  | Starting-up the machine  Propinting                        |
| 2217/02  |  | 2233/11  | • • Pre-inking   |
| 2219/00  | Printing presses using a heated printing foil                                    | 2233/12  | • Pre-wetting  |
| 2219/10  | Driving devices for the reciprocating die  | 2233/13  | • Pre-registering  |
| 2219/11  | Hydraulic or pneumatic motors  | 2233/20  | Safety devices preventing damage                           |
| 2219/12  | Electric motors  | 2233/21  | by cutting the web in case of web break                    |
| 2219/13  | Gearings   | 2233/22  | by deviating the web in case of web break                  |
| 2219/132 | Cams or eccentrics   | 2233/23  | by preventing the web winding up around                    |
| 2219/134 | Knee-lever   |          | cylinders  |
| 2219/20  | Arrangements for moving, supporting or positioning                               | 2233/30  | Measuring or controlling the consumption of ink            |
|          | the printing foil  | 2233/50  | Marks on printed material                                  |
| 2219/21  | Supports for the unwinding roll; Braking devices                                 | 2233/51  | for colour quality control                                 |
|          | for the unwinding roll   | 2233/52  | • • for registering  |
| 2219/22  | Guiding or tensioning the printing foil  | 2235/00  | Cleaning   |
| 2219/23  | Winding up the printing foil   | 2235/00  | characterised by the methods or devices                    |
| 2219/30  | • Printing dies  |          |  |
| 2219/31  | Heating means  | 2235/12  | using laser energy   |
| 2219/32  | with means for attaching printing elements to the                                | 2235/14  | • using ultrasonic energy                                  |
| 2217/32  | holder   | 2235/20  | Wiping devices   |
| 2219/33  | Supports for printing dies   | 2235/21  | Scrapers, e.g. absorbent pads                              |
| 2219/40  | Material or products to be decorated or printed                                  | 2235/22  | Rollers  |
| 2219/40  | Web-like material  | 2235/23  | Brushes  |
| 2219/42  | Sheet-like material  | 2235/24  | using rolls of cleaning cloth                              |
| 2219/43  | Three-dimensional articles   | 2235/242 | Unwinding the cleaning cloth                               |
| 2219/43  | Pencils  | 2235/244 | Rewinding the cleaning cloth                               |
|          |  | 2235/246 | Pressing the cleaning cloth against the                    |
| 2219/434 | Books, e.g. edge-gilding   |          | cylinder   |
| 2219/50  | combined with existing presses   | 2235/26  | Spraying devices   |
| 2219/51  | Converting existing presses to foil printing                                     | 2235/27  | Suction devices  |
| 2210/60  | presses  | 2235/30  | <ul> <li>Recovering used solvents or residues</li> </ul>   |
| 2219/60  | Using more than one printing foil  | 2235/31  | by filtering   |
| 2227/00  | Mounting or handling printing plates; Forming                                    | 2235/32  | by distilling  |
|          | printing surfaces in situ  | 2235/33  | by burning   |
| 2227/10  | Attaching several printing plates on one cylinder                                | 2235/40  | Cleaning restricted areas on cylinders                     |
| 2227/11  | in axial direction   | 2235/50  | Selection of materials or products for cleaning            |
| 2227/12  | in circumferential direction   |          |  |
| 2227/12  | Means enabling or facilitating exchange of tubular                               | 2251/00  | Details or accessories of printing machines not            |
| 2221120  | printing or impression members, e.g. printing                                    |          | otherwise provided for                                     |
|          | sleeves, blankets  | 2251/10  | • Pumps  |
| 2227/21  | Means facilitating exchange of sleeves mounted                                   | 2251/11  | Membrane pumps   |
| 2227721  | on cylinders without removing the cylinder from                                  | 2251/112 | Peristaltic pumps  |
|          | the press  | 2700/00  | Manifolding printing or duplicating for office             |
| 2227/30  | Detecting the correct position of printing plates on                             | 4700/00  | Manifolding, printing or duplicating for office purposes   |
|          | the cylinder   | 2700/10  | Hectographic line duplicators                              |
| 2227/40  | Adjusting means for printing plates on the cylinder                              | 2700/10  | . with single master plates                                |
| 2227/41  | . axially  | 2/00/12  | • • with single master plates                              |
| 2227/42  | circumferentially  |          |  |
| 2227/43  | . diagonally   |          |  |
|          | - ·  |          |  |
| 2227/50  | Devices for storing printing plates  Pavious for transforming printing plates.   |          |  |
| 2227/60  | Devices for transferring printing plates   |          |  |

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2227/60 • Devices for transferring printing plates