Symbol	Typ	Titel
B	**Sektion**	**SECTION B — PERFORMING OPERATIONS; TRANSPORTING**
B41	**Untersektion**	**PRINTING**
B41	**Klasse**	**PRINTING; LINING MACHINES; TYPEWRITERS; STAMPS (reproduction or duplication of pictures or patterns by scanning and converting into electrical signals H04N) [4]**
B41J	**Unterklasse**	**TYPEWRITERS; SELECTIVE PRINTING MECHANISMS, i.e. MECHANISMS PRINTING OTHERWISE THAN FROM A FORME; CORRECTION OF TYPOGRAPHICAL ERRORS (composing B41B; printing on special surfaces B41F; laundry marking B41K; erasers, rubbers or erasing devices B43L 19/00; fluid media for correction of typographical errors by coating C09D 10/00; recording the results of measuring G01; recognition or presentation of data, marking record carriers in digital fashion, e.g. by punching, G06K ; franking or ticket-printing and issuing apparatus G07B; electric keyboard switches, in general H01H 13/70, H03K 17/94; coding in connection with keyboards or like devices, in general H03M 11/00; receivers or transmitters for transmission of digital information H04L; transmission or reproduction of documents, or the like, e.g. facsimile transmission, H04N 1/00; printing mechanisms specially adapted for apparatus, e.g. cash registers, weighing machines, producing records of their own performance, see the relevant subclasses)**
		Kinds of typewriters or of selective printing mechanisms
B41J 1/00	**Hauptgruppe**	**Typewriters or selective printing mechanisms characterised by the mounting, arrangement, or disposition of the types or dies (non-selective embossing B44B 5/00)**
B41J 1/02	1-Punkt Untergruppe	. with separate or detached types or dies
B41J 1/04	1-Punkt Untergruppe	. with types or dies carried upon levers or radial arms, e.g. manually operated (B41J 1/16 takes precedence)
B41J 1/06	2-Punkt Untergruppe	. . on power-operated levers or arms
B41J 1/08	1-Punkt Untergruppe	. with types or dies carried on sliding bars or rods
B41J 1/10	2-Punkt Untergruppe	. . on end surfaces thereof
B41J 1/12	2-Punkt Untergruppe	. . on side surfaces thereof, e.g. fixed thereto
B41J 1/14	3-Punkt Untergruppe	. . . the types or dies being movable relative to the bars or rods (mounted on flexible bars or rods B41J 1/16)
B41J 1/16	1-Punkt Untergruppe	. with types or dies arranged in stationary or sliding cases or frames or upon flexible strips, plates, bars, or rods
B41J 1/18	1-Punkt Untergruppe	. with types or dies strung on wires or rods
B41J 1/20	1-Punkt Untergruppe	. with types or dies mounted on endless bands or the like
B41J 1/22	1-Punkt Untergruppe	. with types or dies mounted on carriers rotatable for selection
B41J 1/24	2-Punkt Untergruppe	. . the plane of the type or die face being perpendicular to the axis of rotation (B41J 1/60 takes precedence)
B41J 1/26	3-Punkt Untergruppe	. . . Carriers moving for impression (B41J 1/27 takes precedence) [3]
B41J 1/27	3-Punkt Untergruppe	. . . Carriers moving during impression [3]
B41J 1/28	3-Punkt Untergruppe	. . . Carriers stationary for impression, e.g. with the types or dies not moving relative to the carriers
B41J 1/30	4-Punkt Untergruppe	. . . . with the types or dies moving relative to the carriers or mounted on flexible carriers
B41J 1/32	2-Punkt Untergruppe	. . the plane of the type or die face being parallel to the axis of rotation, e.g. with type on the periphery of cylindrical carriers (B41J 1/60 takes precedence)

Symbol	Typ	Titel
B41J 1/34	3-Punkt Untergruppe	. . . Carriers rotating during impression
B41J 1/36	3-Punkt Untergruppe	. . . Carriers sliding for impression, e.g. manually operated
B41J 1/38	4-Punkt Untergruppe	. . . . power operated
B41J 1/40	3-Punkt Untergruppe	. . . Carriers swinging for impression
B41J 1/42	4-Punkt Untergruppe	. . . . about an axis parallel to the axis of rotation of the carrier
B41J 1/44	3-Punkt Untergruppe	. . . Carriers stationary for impression
B41J 1/46	4-Punkt Untergruppe	. . . . Types or dies fixed on wheel, drum, cylinder, or like carriers
B41J 1/48	5-Punkt Untergruppe	. . . . . with a plurality of carriers, one for each character space
B41J 1/50	5-Punkt Untergruppe	. . . . . with one or more carriers travelling across copy material in letter-space direction
B41J 1/52	5-Punkt Untergruppe	. . . . . with copy material moving in the letter-space direction, and carrier mounting being fixed relative to the machine
B41J 1/54	4-Punkt Untergruppe	. . . . Types or dies movable on wheel, drum, cylinder, or like carriers
B41J 1/56	4-Punkt Untergruppe	. . . . Types or dies on shuttles or like loose carriers
B41J 1/58	4-Punkt Untergruppe	. . . . Types or dies upon arcuate bars
B41J 1/60	1-Punkt Untergruppe	. with types or dies on spherical, truncated-spherical, or like surfaces
B41J 2/00	**Hauptgruppe**	**Typewriters or selective printing mechanisms characterised by the printing or marking process for which they are designed (mounting, arrangement, or disposition of types or dies B41J 1/00; marking methods B41M 5/00; structure or manufacture of heads, e.g. inductive, for recording by magnetisation or demagnetisation of a record carrier G11B 5/127; heads for reproducing capacitive information G11B 9/07) [5]**
B41J 2/005	1-Punkt Untergruppe	. characterised by bringing liquid or particles selectively into contact with a printing material (printing by selective application of impact or pressure on a printing or impression-transfer material B41J 2/22) [5]
B41J 2/01	2-Punkt Untergruppe	. . Ink jet [5]
B41J 2/015	3-Punkt Untergruppe	. . . characterised by the jet generation process (B41J 2/215 takes precedence) [5]
B41J 2/02	4-Punkt Untergruppe	. . . . generating a continuous ink jet [5]
B41J 2/025	5-Punkt Untergruppe	. . . . . by vibration [5]
B41J 2/03	5-Punkt Untergruppe	. . . . . by pressure [5]
B41J 2/035	5-Punkt Untergruppe	. . . . . by electric or magnetic field [5]
B41J 2/04	4-Punkt Untergruppe	. . . . generating single droplets or particles on demand [5]
B41J 2/045	5-Punkt Untergruppe	. . . . . by pressure, e.g. electromechanical transducers [5]
B41J 2/05	6-Punkt Untergruppe	. . . . . produced by the application of heat [5]
B41J 2/055	6-Punkt Untergruppe	. . . . . Devices for absorbing or preventing back-pressure [5]
B41J 2/06	5-Punkt Untergruppe	. . . . . by electric or magnetic field [5]
B41J 2/065	6-Punkt Untergruppe	. . . . . involving the preliminary making of ink protuberances [5]
B41J 2/07	3-Punkt Untergruppe	. . . characterised by jet control (B41J 2/205 takes precedence) [5]

Symbol	Typ	Titel
B41J 2/075	4-Punkt Untergruppe	. . . . for many-valued deflection [5]
B41J 2/08	5-Punkt Untergruppe	. . . . . charge-control type [5]
B41J 2/085	6-Punkt Untergruppe	. . . . . Charge means, e.g. electrodes [5]
B41J 2/09	6-Punkt Untergruppe	. . . . . Deflection means [5]
B41J 2/095	5-Punkt Untergruppe	. . . . . electric field-control type [5]
B41J 2/10	5-Punkt Untergruppe	. . . . . magnetic field-control type [5]
B41J 2/105	4-Punkt Untergruppe	. . . . for binary-valued deflection [5]
B41J 2/11	4-Punkt Untergruppe	. . . . for ink spray [5]
B41J 2/115	4-Punkt Untergruppe	. . . . synchronising the droplet separation and charging time [5]
B41J 2/12	4-Punkt Untergruppe	. . . . testing or correcting charge or deflection [5]
B41J 2/125	4-Punkt Untergruppe	. . . . Sensors, e.g. deflection sensors [5]
B41J 2/13	4-Punkt Untergruppe	. . . . for inclination of printed pattern [5]
B41J 2/135	3-Punkt Untergruppe	. . . Nozzles [5]
B41J 2/14	4-Punkt Untergruppe	. . . . Structure thereof [5]
B41J 2/145	4-Punkt Untergruppe	. . . . Arrangement thereof [5]
B41J 2/15	5-Punkt Untergruppe	. . . . . for serial printing [5]
B41J 2/155	5-Punkt Untergruppe	. . . . . for line printing [5]
B41J 2/16	4-Punkt Untergruppe	. . . . Production of nozzles [5]
B41J 2/165	4-Punkt Untergruppe	. . . . Prevention of nozzle clogging, e.g. cleaning, capping or moistening for nozzles [5]
B41J 2/17	3-Punkt Untergruppe	. . . characterised by ink handling [5]
B41J 2/175	4-Punkt Untergruppe	. . . . Ink supply systems [5]
B41J 2/18	4-Punkt Untergruppe	. . . . Ink recirculation systems [5]
B41J 2/185	5-Punkt Untergruppe	. . . . . Ink-collectors; Ink-catchers [5]
B41J 2/19	4-Punkt Untergruppe	. . . . for removing air bubbles [5]
B41J 2/195	4-Punkt Untergruppe	. . . . for monitoring ink quality [5]
B41J 2/20	4-Punkt Untergruppe	. . . . for preventing or detecting contamination of compounds [5]
B41J 2/205	3-Punkt Untergruppe	. . . for printing a discrete number of tones (B41J 2/21 takes precedence) [5]
B41J 2/21	3-Punkt Untergruppe	. . . for multi-colour printing [5]
B41J 2/215	2-Punkt Untergruppe	. . by passing a medium, e.g. consisting of an air or particle stream, through an ink mist [5]
B41J 2/22	1-Punkt Untergruppe	. characterised by selective application of impact or pressure on a printing material or impression- transfer material [5]
B41J 2/225	2-Punkt Untergruppe	. . ballistic, e.g. using solid balls or pellets [5]

Symbol	Typ	Titel
B41J 2/23	2-Punkt Untergruppe	. . using print wires [5]
B41J 2/235	3-Punkt Untergruppe	. . . Print head assemblies [5]
B41J 2/24	4-Punkt Untergruppe	. . . . serial printer type (B41J 2/25, B41J 2/265 take precedence) [5]
B41J 2/245	4-Punkt Untergruppe	. . . . line printer type (B41J 2/25, B41J 2/265 take precedence) [5]
B41J 2/25	4-Punkt Untergruppe	. . . . Print wires [5]
B41J 2/255	5-Punkt Untergruppe	. . . . . Arrangement of the print ends of the wires [5]
B41J 2/26	5-Punkt Untergruppe	. . . . . Connection of print wire and actuator [5]
B41J 2/265	4-Punkt Untergruppe	. . . . Guides for print wires [5]
B41J 2/27	3-Punkt Untergruppe	. . . Actuators for print wires [5]
B41J 2/275	4-Punkt Untergruppe	. . . . of clapper type (B41J 2/28 takes precedence) [5]
B41J 2/28	4-Punkt Untergruppe	. . . . of spring charge type, i.e. with mechanical power under electro-magnetic control [5]
B41J 2/285	4-Punkt Untergruppe	. . . . of plunger type [5]
B41J 2/29	4-Punkt Untergruppe	. . . . of moving-coil type [5]
B41J 2/295	4-Punkt Untergruppe	. . . . using piezo-electric elements [5]
B41J 2/30	3-Punkt Untergruppe	. . . Control circuits for actuators [5]
B41J 2/305	3-Punkt Untergruppe	. . . Ink supply apparatus (ink ribbons, ink-ribbon mechanisms B41J 31/00-B41J 35/00) [5]
B41J 2/31	2-Punkt Untergruppe	. . using a print element with projections on its surface impacted or impressed by hammers [5]
B41J 2/315	1-Punkt Untergruppe	. characterised by selective application of heat to a heat sensitive printing or impression-transfer material (B41J 2/385, B41J 2/435 take precedence) [5]
B41J 2/32	2-Punkt Untergruppe	. . using thermal heads [5]
B41J 2/325	3-Punkt Untergruppe	. . . by selective transfer of ink from ink carrier, e.g. from ink ribbon or sheet [5]
B41J 2/33	4-Punkt Untergruppe	. . . . from ink roller [5]
B41J 2/335	3-Punkt Untergruppe	. . . Structure of thermal heads [5]
B41J 2/34	4-Punkt Untergruppe	. . . . comprising semiconductors [5]
B41J 2/345	3-Punkt Untergruppe	. . . characterised by the arrangement of resistors or conductors [5]
B41J 2/35	3-Punkt Untergruppe	. . . providing current or voltage to the thermal head [5]
B41J 2/355	4-Punkt Untergruppe	. . . . Control circuits for heating-element selection [5]
B41J 2/36	5-Punkt Untergruppe	. . . . . Print density control [5]
B41J 2/365	6-Punkt Untergruppe	. . . . . by compensation for variation in temperature [5]
B41J 2/37	6-Punkt Untergruppe	. . . . . by compensation for variation in current [5]
B41J 2/375	3-Punkt Untergruppe	. . . Protection arrangements against overheating [5]
B41J 2/38	2-Punkt Untergruppe	. . Preheating, i.e. heating to a temperature insufficient to cause printing [5]

Symbol	Typ	Titel
B41J 2/385	1-Punkt Untergruppe	. characterised by selective supply of electric current or selective application of magnetism to a printing or impression-transfer material (B41J 2/005 takes precedence; electrography, magnetography G03G) [5]
B41J 2/39	2-Punkt Untergruppe	. . using multi-stylus heads [5]
B41J 2/395	3-Punkt Untergruppe	. . . Structure of multi-stylus heads [5]
B41J 2/40	3-Punkt Untergruppe	. . . providing current or voltage to the multi-stylus head [5]
B41J 2/405	4-Punkt Untergruppe	. . . . Selection of the stylus or auxiliary electrode to be supplied (electronic switching circuits in general H03K 17/00) [5]
B41J 2/41	2-Punkt Untergruppe	. . for electrostatic printing (B41J 2/39 takes precedence) [5]
B41J 2/415	3-Punkt Untergruppe	. . . by passing charged particles through a hole or a slit [5]
B41J 2/42	2-Punkt Untergruppe	. . for heating selectively [5]
B41J 2/425	2-Punkt Untergruppe	. . for removing surface layer selectively from electro-sensitive material, e.g. matel coated paper [5]
B41J 2/43	2-Punkt Untergruppe	. . for magnetic printing [5]
B41J 2/435	1-Punkt Untergruppe	. characterised by selective application of radiation to a printing material or impression-transfer material (optical elements, systems, or apparatus G02B; modulation or deflection of light G02F; electrophotography G03G) [5]
B41J 2/44	2-Punkt Untergruppe	. . using single radiation source, e.g. lighting beams or shutter arrangements (B41J 2/475 takes precedence) [5]
B41J 2/445	3-Punkt Untergruppe	. . . using liquid crystals [5]
B41J 2/447	2-Punkt Untergruppe	. . using arrays of radiation sources (B41J 2/475 takes precedence) [6]
B41J 2/45	3-Punkt Untergruppe	. . . using light-emitting diode arrays [5]
B41J 2/455	3-Punkt Untergruppe	. . . using laser arrays [5]
B41J 2/46	3-Punkt Untergruppe	. . . characterised by using glass fibres [5]
B41J 2/465	2-Punkt Untergruppe	. . using masks, e.g. light-switching masks (photographic composing B41B) [5]
B41J 2/47	2-Punkt Untergruppe	. . using the combination of scanning and modulation of light [5]
B41J 2/475	2-Punkt Untergruppe	. . for heating selectively [5]
B41J 2/48	3-Punkt Untergruppe	. . . melting ink on a film or melting ink granules [5]
B41J 2/485	1-Punkt Untergruppe	. characterised by the process of building-up characters applicable to two or more kinds of printing or marking processes [5]
B41J 2/49	2-Punkt Untergruppe	. . by writing [5]
B41J 2/495	2-Punkt Untergruppe	. . by selective printing from a rotating helical member [5]
B41J 2/50	2-Punkt Untergruppe	. . by the selective combination of two or more non-identical printing elements [5]
B41J 2/505	2-Punkt Untergruppe	. . from an assembly of identical printing elements [5]
B41J 2/51	3-Punkt Untergruppe	. . . serial printer type [5]
B41J 2/515	3-Punkt Untergruppe	. . . line printer type [5]

Symbol	Typ	Titel
B41J 2/52	1-Punkt Untergruppe	. Arrangement for printing a discrete number of tones, not covered by group B41J 2/205, e.g. applicable to two or more kinds of printing or marking process (B41J 2/525 takes precedence; for photomechanical production G03F 5/00) [5]
B41J 2/525	1-Punkt Untergruppe	. Arrangement for multi-colour printing, not covered by group B41J 2/21, e.g. applicable to two or more kinds of printing or marking process (for photomechanical production G03F 3/00) [5]
B41J 3/00	**Hauptgruppe**	**Typewriters or selective printing or marking mechanisms characterised by the purpose for which they are constructed (cryptographic typewriters G09C 3/00) [5]**
B41J 3/01	1-Punkt Untergruppe	. for special character, e.g. for Chinese characters or bar codes [5]
B41J 3/24	1-Punkt Untergruppe	. for perforating or stencil cutting using special types or dies
B41J 3/26	1-Punkt Untergruppe	. for stenographic writing
B41J 3/28	1-Punkt Untergruppe	. for printing downwardly on flat surfaces, e.g. of books, drawings, boxes
B41J 3/30	1-Punkt Untergruppe	. for printing with large type, e.g. on bulletins, tickets
B41J 3/32	1-Punkt Untergruppe	. for printing in Braille or with keyboards specially adapted for use by blind or disabled persons
B41J 3/34	1-Punkt Untergruppe	. for printing musical scores
B41J 3/36	1-Punkt Untergruppe	. for portability
B41J 3/37	2-Punkt Untergruppe	. . Foldable typewriters [5]
B41J 3/38	1-Punkt Untergruppe	. for embossing, e.g. for making matrices for stereotypes
B41J 3/39	2-Punkt Untergruppe	. . hand-held (manually-controlled or manually-operable label dispensers having printing equipment B65C 11/02) [5]
B41J 3/407	1-Punkt Untergruppe	. for marking on special material (printing on special surfaces B41F 17/00) [5]
B41J 3/413	2-Punkt Untergruppe	. . for metal [5]
B41J 3/42	1-Punkt Untergruppe	. Two or more complete typewriters coupled for simultaneous operation
B41J 3/44	1-Punkt Untergruppe	. Typewriters or selective printing mechanisms having dual functions or combined with, or coupled to, apparatus performing other functions (printing mechanisms coupled to typographical composing machines B41B 27/41)
B41J 3/46	2-Punkt Untergruppe	. . Printing mechanisms combined with apparatus providing a visual indication
B41J 3/50	2-Punkt Untergruppe	. . Mechanisms producing characters by printing and also producing a record by other means (punching mechanisms G06K) [5]
B41J 3/51	3-Punkt Untergruppe	. . . the printed and recorded information being identical; using type elements with code-generating means (G06K 1/12 takes precedence) [5]
B41J 3/54	1-Punkt Untergruppe	. with two or more sets of type or printing elements (B41J 3/60 takes precedence) [5]
B41J 3/60	1-Punkt Untergruppe	. for printing on both faces of the printing material [5]
B41J 3/62	1-Punkt Untergruppe	. for printing on two or more separate sheets or strips of printing material (B41J 3/54 takes precedence) [5]
		Common details or accessories
B41J 5/00	**Hauptgruppe**	**Devices or arrangements for controlling character selection (methods or arrangements for sensing record carriers G06K 7/00)**
B41J 5/02	1-Punkt Untergruppe	. Character or syllable selected by setting an index
B41J 5/04	2-Punkt Untergruppe	. . Single-character selection

Symbol	Typ	Titel
B41J 5/06	2-Punkt Untergruppe	. . Multiple-character selection
B41J 5/08	1-Punkt Untergruppe	. Character or syllable selected by means of keys or keyboards of the typewriter type
B41J 5/10	2-Punkt Untergruppe	. . Arrangements of keyboards
B41J 5/12	2-Punkt Untergruppe	. . Construction of key buttons
B41J 5/14	2-Punkt Untergruppe	. . Construction of key levers
B41J 5/16	2-Punkt Untergruppe	. . Mounting or connecting key buttons on or to key levers
B41J 5/18	2-Punkt Untergruppe	. . Locks
B41J 5/20	3-Punkt Untergruppe	. . . for subsidiary keys, e.g. for shift keys
B41J 5/22	3-Punkt Untergruppe	. . . Interlocks between keys, e.g. without detent arrangements
B41J 5/24	4-Punkt Untergruppe	. . . . with detent arrangements
B41J 5/26	2-Punkt Untergruppe	. . Regulating touch, key dip or stroke, or the like
B41J 5/28	2-Punkt Untergruppe	. . Multiple-action keys, e.g. keys depressed by two or more amounts or movable in two or more directions to effect different functions or selections
B41J 5/30	1-Punkt Untergruppe	. Character or syllable selection controlled by recorded information
B41J 5/31	2-Punkt Untergruppe	. . characterised by form of recorded information
B41J 5/32	3-Punkt Untergruppe	. . . by printed, embossed, or photographic records, e.g. cards, sheets
B41J 5/34	4-Punkt Untergruppe	. . . . by strips or tapes
B41J 5/36	3-Punkt Untergruppe	. . . by punched records, e.g. cards, sheets
B41J 5/38	4-Punkt Untergruppe	. . . . by strips or tapes
B41J 5/40	3-Punkt Untergruppe	. . . by magnetic or electrostatic records, e.g. cards, sheets
B41J 5/42	4-Punkt Untergruppe	. . . . by strips or tapes
B41J 5/44	2-Punkt Untergruppe	. . characterised by the kind of storage of recorded information
B41J 5/46	3-Punkt Untergruppe	. . . the storage being on internal storages
B41J 5/48	3-Punkt Untergruppe	. . . the storage being on external storages
B41J 5/50	4-Punkt Untergruppe	. . . . on a single storage
B41J 5/51	4-Punkt Untergruppe	. . . . on more than one separate storage, e.g. on additional correction strips or tapes [3]
B41J 5/52	2-Punkt Untergruppe	. . characterised by the provision of additional devices for producing a punched or like record, e.g. simultaneously
B41J 7/00	**Hauptgruppe**	**Type-selecting or type-actuating mechanisms (index setting B41J 5/02)**
B41J 7/02	1-Punkt Untergruppe	. Type-lever actuating mechanisms
B41J 7/04	2-Punkt Untergruppe	. . Levers mounted on fixed pivots
B41J 7/06	3-Punkt Untergruppe	. . . and connected to transmission members, e.g. toothed gearing
B41J 7/08	4-Punkt Untergruppe	. . . . with pin-and-slot or like loose connections; Cam-slot members

Symbol	Typ	Titel
B41J 7/10	4-Punkt Untergruppe	. . . . Chain, belt, flexible-cable, or like members
B41J 7/12	3-Punkt Untergruppe	. . . U-shaped type-lever on two pivots
B41J 7/14	3-Punkt Untergruppe	. . . Single key-and-type lever
B41J 7/16	3-Punkt Untergruppe	. . . Type-head pivoted to, or rotating on, lever
B41J 7/18	2-Punkt Untergruppe	. . Levers having moving or variable fulcra to alter the mechanical advantage during the stroke
B41J 7/20	2-Punkt Untergruppe	. . Levers having moving pivots fixed relative to the lever; Type-bars each pivoted on two links
B41J 7/22	2-Punkt Untergruppe	. . Type-baskets; Bearings or hangers for type-levers
B41J 7/24	2-Punkt Untergruppe	. . Construction of type-levers (U-shaped levers B41J 7/12)
B41J 7/26	2-Punkt Untergruppe	. . Special means, e.g. repulsers, for ensuring return of type-levers
B41J 7/28	2-Punkt Untergruppe	. . Key-lever and type-member returned independently to rest position
B41J 7/30	2-Punkt Untergruppe	. . Preventing rebound or clash of levers or type-members
B41J 7/32	1-Punkt Untergruppe	. Type-face selected by operation of sliding members
B41J 7/34	1-Punkt Untergruppe	. Type-face selected by operation of rotary members
B41J 7/36	1-Punkt Untergruppe	. Selecting arrangements applied to type-carriers rotating during impression
B41J 7/38	2-Punkt Untergruppe	. . Type movable on carrier for selection
B41J 7/40	2-Punkt Untergruppe	. . Type movable on carrier for impression
B41J 7/42	2-Punkt Untergruppe	. . Timed impression, e.g. without impact
B41J 7/44	3-Punkt Untergruppe	. . . with impact
B41J 7/46	2-Punkt Untergruppe	. . Rolling contact during impression
B41J 7/48	1-Punkt Untergruppe	. Type-carrier arrested in selected position by electromagnetic means
B41J 7/50	1-Punkt Untergruppe	. Type-face selected by combinations of two movements of type-carrier
B41J 7/52	2-Punkt Untergruppe	. . by combined rotary and sliding movement
B41J 7/54	1-Punkt Untergruppe	. Selecting arrangements including combination, permutation, summation, or aggregation means
B41J 7/56	2-Punkt Untergruppe	. . Summation devices for mechanical movements
B41J 7/58	3-Punkt Untergruppe	. . . Wedges
B41J 7/60	3-Punkt Untergruppe	. . . Levers
B41J 7/62	3-Punkt Untergruppe	. . . Gearing
B41J 7/64	3-Punkt Untergruppe	. . . Pulley-and-strand mechanism
B41J 7/66	2-Punkt Untergruppe	. . Movable members, e.g. pins, displaceable according to a code
B41J 7/68	2-Punkt Untergruppe	. . with means for selectively closing an electric circuit for type presentation
B41J 7/90	1-Punkt Untergruppe	. Syllable, line, or like type selection
B41J 7/92	1-Punkt Untergruppe	. Impact adjustment; Means to give uniformity of impression (B41J 9/46, B41J 9/48 take precedence) [5]

Symbol	Typ	Titel
B41J 7/94	2-Punkt Untergruppe	. . Character-by-character adjustment
B41J 7/96	1-Punkt Untergruppe	. Means for checking correctness of setting
B41J 9/00	**Hauptgruppe**	**Hammer-impression mechanisms**
B41J 9/02	1-Punkt Untergruppe	. Hammers; Arrangements thereof
B41J 9/04	2-Punkt Untergruppe	. . of single hammers, e.g. travelling along printing line
B41J 9/06	3-Punkt Untergruppe	. . . of stationary hammers, e.g. engaging a single type-carrier
B41J 9/08	4-Punkt Untergruppe	. . . . engaging more than one type-carrier
B41J 9/10	2-Punkt Untergruppe	. . of more than one hammer, e.g. one for each character position
B41J 9/12	3-Punkt Untergruppe	. . . each operating in more than one character position
B41J 9/127	2-Punkt Untergruppe	. . Mounting of hammers [3]
B41J 9/133	2-Punkt Untergruppe	. . Construction of hammer body or tip [3]
B41J 9/14	1-Punkt Untergruppe	. Means for selecting or suppressing individual hammers
B41J 9/16	1-Punkt Untergruppe	. Means for cocking or resetting hammers
B41J 9/18	2-Punkt Untergruppe	. . Cams
B41J 9/20	2-Punkt Untergruppe	. . Springs
B41J 9/22	2-Punkt Untergruppe	. . Fluid-pressure means
B41J 9/24	2-Punkt Untergruppe	. . Electromagnetic means
B41J 9/26	1-Punkt Untergruppe	. Means for operating hammers to effect impression
B41J 9/28	2-Punkt Untergruppe	. . Cams
B41J 9/30	2-Punkt Untergruppe	. . Springs
B41J 9/32	2-Punkt Untergruppe	. . arranged to be clutched to snatch roll
B41J 9/34	2-Punkt Untergruppe	. . Fluid-pressure means
B41J 9/36	2-Punkt Untergruppe	. . in which mechanical power is applied under electromagnetic control
B41J 9/38	2-Punkt Untergruppe	. . Electromagnetic means
B41J 9/40	2-Punkt Untergruppe	. . including an electro-adhesive clutch
B41J 9/42	1-Punkt Untergruppe	. with anti-rebound arrangements
B41J 9/44	1-Punkt Untergruppe	. Control for hammer-impression mechanisms [5]
B41J 9/46	2-Punkt Untergruppe	. . for deciding or adjusting hammer-firing time [5]
B41J 9/48	2-Punkt Untergruppe	. . for deciding or adjusting hammer-drive energy [5]
B41J 9/50	2-Punkt Untergruppe	. . for compensating for the variations of printer drive conditions, e.g. for compensating for the variation of temperature or current supply [5]
B41J 9/52	2-Punkt Untergruppe	. . for checking the operation of print hammers [5]
B41J 9/54	3-Punkt Untergruppe	. . . for checking the breakage of print hammers [5]

Symbol	Typ	Titel
B41J 11/00	**Hauptgruppe**	**Devices or arrangements for supporting or handling copy material in sheet or web form (specially adapted for supporting or handling copy material in short lengths B41J 13/00, in continuous form B41J 15/00; holders for text to be copied B41J 29/00)**
B41J 11/02	1-Punkt Untergruppe	. Platens
B41J 11/04	2-Punkt Untergruppe	. . Roller platens
B41J 11/053	3-Punkt Untergruppe	. . . with sound-deadening devices (structure of surface B41J 11/057) [3]
B41J 11/057	3-Punkt Untergruppe	. . . Structure of the surface [3]
B41J 11/06	2-Punkt Untergruppe	. . Flat page-size platens
B41J 11/08	2-Punkt Untergruppe	. . Bar or like line-size platens
B41J 11/10	2-Punkt Untergruppe	. . Anvil or like character-size platens
B41J 11/13	2-Punkt Untergruppe	. . Backings or blankets (for roller platens B41J 11/057) [3]
B41J 11/14	2-Punkt Untergruppe	. . Platen-shift mechanisms; Driving gear therefor
B41J 11/16	2-Punkt Untergruppe	. . with balancing means
B41J 11/18	1-Punkt Untergruppe	. Platen-impression arrangements
B41J 11/20	1-Punkt Untergruppe	. Platen adjustments for varying the strength of impression, for a varying number of papers, for wear or for alignment
B41J 11/22	1-Punkt Untergruppe	. Paper-carriage guides or races
B41J 11/24	1-Punkt Untergruppe	. Detents, brakes, or couplings for feed rollers or platens
B41J 11/26	1-Punkt Untergruppe	. Pin feeds
B41J 11/27	2-Punkt Untergruppe	. . on or within the platen-rollers
B41J 11/28	2-Punkt Untergruppe	. . Pin wheels
B41J 11/30	2-Punkt Untergruppe	. . Pin traction elements other than wheels, e.g. pins on endless bands
B41J 11/32	2-Punkt Untergruppe	. . Adjustment of pin wheels or traction elements, e.g. laterally
B41J 11/34	2-Punkt Untergruppe	. . Guides coacting with pin feeds
B41J 11/36	1-Punkt Untergruppe	. Blanking or long feeds; Feeding to a particular line, e.g. by rotation of platen or feed roller
B41J 11/38	2-Punkt Untergruppe	. . Manually-operated feeding devices
B41J 11/40	2-Punkt Untergruppe	. . specially adapted for printing musical scores
B41J 11/42	2-Punkt Untergruppe	. . Controlling
B41J 11/44	3-Punkt Untergruppe	. . . by devices, e.g. programme tape or contact wheel, moved in correspondence with movement of paper-feeding devices, e.g. platen rotation
B41J 11/46	3-Punkt Untergruppe	. . . by marks or formations on the paper being fed
B41J 11/48	1-Punkt Untergruppe	. Apparatus for condensed record, tally strip, or like work using two or more papers, or sets of papers
B41J 11/50	2-Punkt Untergruppe	. . in which two or more papers or sets are separately fed in the same direction towards the printing position
B41J 11/51	3-Punkt Untergruppe	. . . with different feed rates [3]

Symbol	Typ	Titel
B41J 11/52	2-Punkt Untergruppe	. . in which one paper or set is moved transversely relative to another
B41J 11/53	3-Punkt Untergruppe	. . . Devices for holding in place one paper or set during replacement of one or more of the auxiliary papers or sets
B41J 11/54	2-Punkt Untergruppe	. . in which one paper or set is fed towards printing position from the front of the apparatus
B41J 11/55	3-Punkt Untergruppe	. . . with means for adjusting a paper or set [3]
B41J 11/56	1-Punkt Untergruppe	. specially constructed to facilitate storage or transport of typewriter
B41J 11/58	1-Punkt Untergruppe	. Supply holders for sheets or fan-folded webs, e.g. shelves, tables, scrolls, pile holders
B41J 11/60	1-Punkt Untergruppe	. Erasing or correcting tables
B41J 11/62	1-Punkt Untergruppe	. Shields or masks
B41J 11/64	1-Punkt Untergruppe	. Applications of scales or indicators
B41J 11/66	1-Punkt Untergruppe	. Applications of cutting devices
B41J 11/68	2-Punkt Untergruppe	. . cutting parallel to the direction of paper feed
B41J 11/70	2-Punkt Untergruppe	. . cutting perpendicular to the direction of paper feed
B41J 13/00	**Hauptgruppe**	**Devices or arrangements specially adapted for supporting or handling copy material in short lengths, e.g. sheets**
B41J 13/02	1-Punkt Untergruppe	. Rollers (roller platens B41J 11/04)
B41J 13/03	2-Punkt Untergruppe	. . driven, e.g. feed rollers separate from platen
B41J 13/036	2-Punkt Untergruppe	. . co-operating with a roller platen [3]
B41J 13/042	3-Punkt Untergruppe	. . . Front and rear rollers or sets of front or rear rollers each mounted on a separate carrier [3]
B41J 13/048	3-Punkt Untergruppe	. . . Front and rear rollers both mounted on a common carrier [3]
B41J 13/054	4-Punkt Untergruppe	. . . . on the paper apron concentric with the roller platen [3]
B41J 13/076	2-Punkt Untergruppe	. . Construction of rollers; Bearings therefor
B41J 13/08	1-Punkt Untergruppe	. Bands or like feeding devices
B41J 13/10	1-Punkt Untergruppe	. Sheet holders, retainers, or stationary guides
B41J 13/12	2-Punkt Untergruppe	. . specially adapted for cards, envelopes, or the like
B41J 13/14	2-Punkt Untergruppe	. . Aprons or guides
B41J 13/16	3-Punkt Untergruppe	. . . movable for insertion or release of sheets
B41J 13/18	3-Punkt Untergruppe	. . . concentric with roller platen
B41J 13/20	2-Punkt Untergruppe	. . Bails
B41J 13/22	2-Punkt Untergruppe	. . Clamps or grippers
B41J 13/24	2-Punkt Untergruppe	. . Strips for supporting or holding papers
B41J 13/26	1-Punkt Untergruppe	. Registering devices
B41J 13/28	2-Punkt Untergruppe	. . Front lays, stops, or gauges

Symbol	Typ	Titel
B41J 13/30	2-Punkt Untergruppe	. . Side lays or gauges
B41J 13/32	2-Punkt Untergruppe	. . Means for positioning sheets in two directions under one control, e.g. for format control or orthogonal sheet positioning
B41J 15/00	**Hauptgruppe**	**Devices or arrangements specially adapted for supporting or handling copy material in continuous form, e.g. webs**
B41J 15/02	1-Punkt Untergruppe	. Web rolls or spindles; Attaching webs to cores or spindles
B41J 15/04	1-Punkt Untergruppe	. Supporting, feeding, or guiding devices; Mountings for web rolls or spindles
B41J 15/06	2-Punkt Untergruppe	. . characterised by being applied to printers having stationary carriages
B41J 15/08	2-Punkt Untergruppe	. . characterised by being applied to printers having transversely-moving carriages
B41J 15/10	3-Punkt Untergruppe	. . . and mounted on the carriage
B41J 15/12	3-Punkt Untergruppe	. . . and coupled to the carriage
B41J 15/14	3-Punkt Untergruppe	. . . and detached from the carriage
B41J 15/16	1-Punkt Untergruppe	. Means for tensioning or winding the web
B41J 15/18	1-Punkt Untergruppe	. Multiple-web feeding apparatus
B41J 15/20	2-Punkt Untergruppe	. . for webs superimposed during printing (machines for separating superposed webs B65H 41/00)
B41J 15/22	2-Punkt Untergruppe	. . for feeding webs in separate paths during printing
B41J 15/24	2-Punkt Untergruppe	. . with means for registering the webs with each other
B41J 17/00	**Hauptgruppe**	**Mechanisms for manipulating page-width impression-transfer material, e.g. carbon paper (in manifolding devices B41L; sheet material for duplicating or marking B41M 5/00)**
B41J 17/02	1-Punkt Untergruppe	. Feeding mechanisms
B41J 17/04	2-Punkt Untergruppe	. . Feed dependent on the record-paper feed, e.g. both moved at the same time
B41J 17/06	3-Punkt Untergruppe	. . . "Creep" feed, i.e. impression-transfer material fed slower than the record paper
B41J 17/07	3-Punkt Untergruppe	. . . electromagnetically controlled
B41J 17/08	2-Punkt Untergruppe	. . Feed independent of the record-paper feed
B41J 17/10	3-Punkt Untergruppe	. . . electromagnetically controlled
B41J 17/12	2-Punkt Untergruppe	. . Special adaptations for ensuring maximum life
B41J 17/14	2-Punkt Untergruppe	. . Automatic arrangements for reversing the feed direction
B41J 17/16	1-Punkt Untergruppe	. Holders in the machine for sheets of impression-transfer material
B41J 17/18	2-Punkt Untergruppe	. . pivotable to and from the platen
B41J 17/20	2-Punkt Untergruppe	. . slidable to and from the platen
B41J 17/22	1-Punkt Untergruppe	. Supply arrangements for webs or impression-transfer material
B41J 17/24	2-Punkt Untergruppe	. . Webs supplied from reels or spools attached to the machine (reels per seB65H 75/02)
B41J 17/26	2-Punkt Untergruppe	. . Webs supplied from trays or like supports attached to the machines
B41J 17/28	1-Punkt Untergruppe	. Arrangements of guides for the impression-transfer material

Symbol	Typ	Titel
B41J 17/30	1-Punkt Untergruppe	. Constructions of guides for the impression-transfer material
B41J 17/32	1-Punkt Untergruppe	. Detachable carriers or holders for impression-transfer material mechanism
B41J 17/34	1-Punkt Untergruppe	. Backings for impression-transfer material, e.g. sheets for reducing friction, shields for preventing imprint
B41J 17/36	1-Punkt Untergruppe	. Alarms, indicators, or feed-disabling devices responsive to material breakage or exhaustion
B41J 17/38	1-Punkt Untergruppe	. for dealing with the impression-transfer material after use
B41J 17/40	2-Punkt Untergruppe	. . for retracting sheets for re-use
B41J 17/42	2-Punkt Untergruppe	. . for webs
B41J 19/00	**Hauptgruppe**	**Character- or line-spacing mechanisms (key actions B41J 25/02)**
B41J 19/02	1-Punkt Untergruppe	. with retarding devices, e.g. brakes
B41J 19/04	1-Punkt Untergruppe	. Sound-deadening or shock-absorbing devices or measures therein (B41J 19/38 takes precedence)
B41J 19/06	2-Punkt Untergruppe	. . Resilient mounting of mechanism
B41J 19/08	2-Punkt Untergruppe	. . Buffers, springs, or like carriage stops
B41J 19/10	2-Punkt Untergruppe	. . Dash-pots
B41J 19/12	2-Punkt Untergruppe	. . Gearing made of special material or specially constructed to reduce sound or shock
B41J 19/14	1-Punkt Untergruppe	. with means for effecting line or character spacing in either direction
B41J 19/16	1-Punkt Untergruppe	. Special spacing mechanisms for circular, spiral, or diagonal-printing apparatus
B41J 19/18	1-Punkt Untergruppe	. Character-spacing or back-spacing mechanisms; Carriage-return or release devices therefor
B41J 19/20	2-Punkt Untergruppe	. . Positive-feed character-spacing mechanisms (controlled by escapements B41J 19/52)
B41J 19/22	3-Punkt Untergruppe	. . . acting by friction or gripping effect
B41J 19/24	3-Punkt Untergruppe	. . . Pawl and ratchet
B41J 19/26	4-Punkt Untergruppe	. . . . moving a paper or like carriage
B41J 19/28	4-Punkt Untergruppe	. . . . moving a paper or like web or strip, e.g. over a stationary support
B41J 19/30	3-Punkt Untergruppe	. . . Electromagnetically-operated mechanisms
B41J 19/32	3-Punkt Untergruppe	. . . Differential or variable-spacing arrangements
B41J 19/34	2-Punkt Untergruppe	. . Escapement-feed character-spacing mechanisms
B41J 19/36	3-Punkt Untergruppe	. . . Driving mechanisms, e.g. springs stressed during carriage return
B41J 19/38	4-Punkt Untergruppe	. . . . adapted for silent return
B41J 19/40	3-Punkt Untergruppe	. . . Escapements having a single pawl or like detent
B41J 19/42	3-Punkt Untergruppe	. . . Escapements having two pawls or like detents
B41J 19/44	4-Punkt Untergruppe	. . . . coacting with two toothed members, e.g. racks or wheels
B41J 19/46	4-Punkt Untergruppe	. . . . and mounted on a single rocker
B41J 19/48	4-Punkt Untergruppe	. . . . and mounted on a single slider

Symbol	Typ	Titel
B41J 19/50	3-Punkt Untergruppe	. . . Electromagnetically-controlled escapements
B41J 19/52	3-Punkt Untergruppe	. . . Escapements controlling positive-feed mechanism
B41J 19/54	3-Punkt Untergruppe	. . . Construction of universal bars
B41J 19/56	3-Punkt Untergruppe	. . . Escapements controlling web or strip feed
B41J 19/58	3-Punkt Untergruppe	. . . Differential or variable-spacing arrangements
B41J 19/60	2-Punkt Untergruppe	. . Auxiliary feed or adjustment devices
B41J 19/62	3-Punkt Untergruppe	. . . for back-spacing
B41J 19/64	3-Punkt Untergruppe	. . . for justifying
B41J 19/66	2-Punkt Untergruppe	. . Carriage-release mechanisms
B41J 19/68	2-Punkt Untergruppe	. . Carriage-return mechanisms, e.g. manually actuated
B41J 19/70	3-Punkt Untergruppe	. . . power driven
B41J 19/72	4-Punkt Untergruppe	. . . . with power stored during character spacing
B41J 19/74	2-Punkt Untergruppe	. . with special means to maintain character-spacing or back-spacing elements in engagement during case-shift or like movement
B41J 19/76	1-Punkt Untergruppe	. Line-spacing mechanisms (special line-feeds, e.g. long feeds, B41J 11/36)
B41J 19/78	2-Punkt Untergruppe	. . Positive-feed mechanisms
B41J 19/80	3-Punkt Untergruppe	. . . Pawl-and-ratchet mechanisms
B41J 19/82	4-Punkt Untergruppe	. . . . moving a paper or like carriage
B41J 19/84	5-Punkt Untergruppe	. . . . . in the form of a roller rotated for line spacing
B41J 19/86	6-Punkt Untergruppe	. . . . . the pawl being normally in engagement with the ratchet
B41J 19/88	4-Punkt Untergruppe	. . . . moving a type carriage
B41J 19/90	4-Punkt Untergruppe	. . . . moving a paper or like web or strip, e.g. over a stationary support, automatically in response to movements other than carriage return
B41J 19/92	3-Punkt Untergruppe	. . . Electromagnetically-operated mechanisms
B41J 19/94	3-Punkt Untergruppe	. . . automatically operated in response to carriage return
B41J 19/96	3-Punkt Untergruppe	. . . Variable-spacing arrangements
B41J 19/98	2-Punkt Untergruppe	. . Escapement-feed mechanisms
B41J 21/00	**Hauptgruppe**	**Column, tabular, or like printing arrangements; Means for centralising short lines (carriage-release mechanisms B41J 19/66; key actions B41J 25/18)**
B41J 21/02	1-Punkt Untergruppe	. Stops or stop-racks
B41J 21/04	1-Punkt Untergruppe	. Mechanisms for setting or restoring tabulation stops
B41J 21/06	1-Punkt Untergruppe	. with means for preventing rebound from stops
B41J 21/08	1-Punkt Untergruppe	. Mechanisms for initiating, effecting, skipping, or stopping tabulation movement; Means for centralising short lines

Symbol	Typ	Titel
B41J 21/10	1-Punkt Untergruppe	. with central, counter, or equivalent stop projected into path of tabulation stops
B41J 21/12	1-Punkt Untergruppe	. characterised by arrangements of electrical contacts
B41J 21/14	1-Punkt Untergruppe	. characterised by denominational arrangements
B41J 21/16	1-Punkt Untergruppe	. controlled by the sensing of marks or formations on the paper being typed, an undersheet, or the platen
B41J 21/17	1-Punkt Untergruppe	. controlled by stored information [5]
B41J 21/18	1-Punkt Untergruppe	. characterised by applications of scales or indicators
B41J 23/00	**Hauptgruppe**	**Power drives for actions or mechanisms (B41J 9/00 take precedence)**
B41J 23/02	1-Punkt Untergruppe	. Mechanical power drives
B41J 23/04	2-Punkt Untergruppe	. . with driven mechanism arranged to be clutched to continuously-operating power source
B41J 23/06	3-Punkt Untergruppe	. . . by snatch rolls
B41J 23/08	3-Punkt Untergruppe	. . . by one-revolution or part-revolution clutches
B41J 23/10	3-Punkt Untergruppe	. . . and arrested in selected position
B41J 23/12	2-Punkt Untergruppe	. . Mechanism driven by cams engaging rotating roller
B41J 23/14	2-Punkt Untergruppe	. . Mechanism driven through an oscillating or reciprocating member
B41J 23/16	2-Punkt Untergruppe	. . Mechanism driven by a spring tensioned by power means
B41J 23/18	2-Punkt Untergruppe	. . Continuously-cycling drives
B41J 23/20	1-Punkt Untergruppe	. Fluid-pressure power drives
B41J 23/22	2-Punkt Untergruppe	. . for key or like type selection
B41J 23/24	2-Punkt Untergruppe	. . for impression mechanisms
B41J 23/26	2-Punkt Untergruppe	. . for platen or carriage movements, e.g. for line spacing, letter spacing, or carriage return
B41J 23/28	2-Punkt Untergruppe	. . for type-carriage movements
B41J 23/30	2-Punkt Untergruppe	. . for case shift
B41J 23/32	1-Punkt Untergruppe	. Electromagnetic power drives, e.g. applied to key levers
B41J 23/34	2-Punkt Untergruppe	. . applied to elements other than key levers
B41J 23/36	3-Punkt Untergruppe	. . . and acting on type members
B41J 23/38	3-Punkt Untergruppe	. . . and acting on aligning or case-shift mechanisms
B41J 25/00	**Hauptgruppe**	**Actions or mechanisms not otherwise provided for**
B41J 25/02	1-Punkt Untergruppe	. Key actions for specified purposes
B41J 25/04	2-Punkt Untergruppe	. . Back-spacing
B41J 25/06	2-Punkt Untergruppe	. . Carriage return
B41J 25/08	2-Punkt Untergruppe	. . Case shift
B41J 25/10	2-Punkt Untergruppe	. . Ink-ribbon adjustment
B41J 25/12	2-Punkt Untergruppe	. . Character spacing

Symbol	Typ	Titel
B41J 25/14	2-Punkt Untergruppe	. . Line spacing
B41J 25/16	2-Punkt Untergruppe	. . Line spacing and carriage return by a single key
B41J 25/18	2-Punkt Untergruppe	. . Tabulating
B41J 25/20	1-Punkt Untergruppe	. Auxiliary type mechanisms for printing distinguishing marks, e.g. for accenting, using dead or half-dead key arrangements, for printing marks in telegraph printers to indicate that machine is receiving
B41J 25/22	1-Punkt Untergruppe	. for aligning characters for impression (in machines using index setting B41J 5/02)
B41J 25/24	1-Punkt Untergruppe	. Case-shift mechanisms (B41J 11/14 takes precedence; key actions B41J 25/08); Fount-change arrangements
B41J 25/304	1-Punkt Untergruppe	. Bodily-movable mechanisms for print heads or carriages movable towards or from paper surface (type carriers sliding for impression B41J 1/36; type carriers swinging for impression B41J 1/40) [5]
B41J 25/308	2-Punkt Untergruppe	. . with print gap adjustment mechanisms [5]
B41J 25/312	2-Punkt Untergruppe	. . with print pressure adjustment mechanisms, e.g. pressure-on-the-paper mechanisms [5]
B41J 25/316	2-Punkt Untergruppe	. . with tilting motion mechanisms relative to paper surface [5]
B41J 25/32	1-Punkt Untergruppe	. Impression mechanisms in which a roller co-operates with stationary type-faces
B41J 25/34	1-Punkt Untergruppe	. Bodily-changeable print heads or carriages (B41J 1/20, B41J 1/22, B41J 1/60 take precedence) [5]
B41J 27/00	**Hauptgruppe**	**Inking apparatus**
B41J 27/02	1-Punkt Untergruppe	. with ink applied by pads or rotary discs
B41J 27/04	2-Punkt Untergruppe	. . Pads or discs; Ink-supply arrangements therefor
B41J 27/06	2-Punkt Untergruppe	. . Arrangements to ensure maximum life of pads or discs
B41J 27/08	2-Punkt Untergruppe	. . Arrangements for multicolour work
B41J 27/10	1-Punkt Untergruppe	. with ink applied by rollers; Ink-supply arrangements therefor
B41J 27/12	2-Punkt Untergruppe	. . Rollers
B41J 27/14	2-Punkt Untergruppe	. . Arrangements for multicolour work
B41J 27/16	1-Punkt Untergruppe	. with ink deposited electrostatically or electromagnetically, e.g. powdered ink
B41J 27/18	2-Punkt Untergruppe	. . with liquid ink deposited
B41J 27/20	1-Punkt Untergruppe	. with ink supplied by capillary action, e.g. through porous type-members, through porous platens
B41J 27/22	1-Punkt Untergruppe	. with inking discs or sectors
B41J 29/00	**Hauptgruppe**	**Details of, or accessories for, typewriters or selective printing mechanisms not otherwise provided for**
B41J 29/02	1-Punkt Untergruppe	. Framework
B41J 29/04	1-Punkt Untergruppe	. Means for attaching machines to baseboards
B41J 29/06	1-Punkt Untergruppe	. Special supports, platforms, or trolleys for supporting machines on tables
B41J 29/08	1-Punkt Untergruppe	. Sound-deadening or shock-absorbing stands, supports, cases, or pads separate from machines
B41J 29/10	1-Punkt Untergruppe	. Sound-deadening devices embodied in machines (B41J 19/04 takes precedence)
B41J 29/12	1-Punkt Untergruppe	. Guards, shields or dust excluders [5]

Symbol	Typ	Titel
B41J 29/13	2-Punkt Untergruppe	. . Cases or covers [5]
B41J 29/14	1-Punkt Untergruppe	. Attachments operated by the leg, e.g. the foot or knee
B41J 29/15	1-Punkt Untergruppe	. Script supports connected to the typewriter or printer (tables, desks, office furniture, in general A47B) [5]
B41J 29/16	1-Punkt Untergruppe	. Auxiliary receptacles for articles, e.g. erasers, pencils
B41J 29/17	1-Punkt Untergruppe	. Cleaning arrangements [5]
B41J 29/18	1-Punkt Untergruppe	. Mechanisms for rendering the print visible to the operator (ink-ribbon shifts B41J 35/20) [5]
B41J 29/19	2-Punkt Untergruppe	. . with reflectors or illuminating devices [5]
B41J 29/20	1-Punkt Untergruppe	. Arrangements of counting devices
B41J 29/22	2-Punkt Untergruppe	. . Line counters
B41J 29/24	2-Punkt Untergruppe	. . Word counters
B41J 29/26	1-Punkt Untergruppe	. Devices, non-fluid media or methods for cancelling, correcting errors, underscoring or ruling [4]
B41J 29/28	2-Punkt Untergruppe	. . Writing or like instruments in holders or guides
B41J 29/30	2-Punkt Untergruppe	. . Wheels
B41J 29/32	2-Punkt Untergruppe	. . Type-members
B41J 29/34	3-Punkt Untergruppe	. . . repeatedly actuated
B41J 29/36	2-Punkt Untergruppe	. . for cancelling or correcting errors by overprinting (B41J 31/00 takes precedence) [4]
B41J 29/367	3-Punkt Untergruppe	. . . sheet media carrying a pigmented transferable correction layer [4]
B41J 29/373	3-Punkt Untergruppe	. . . sheet media bearing an adhesive layer effective to lift off wrongly typed characters [4]
B41J 29/377	1-Punkt Untergruppe	. Cooling or ventilating arrangements [5]
B41J 29/38	1-Punkt Untergruppe	. Drives, motors, controls, or automatic cut-off devices for the entire printing mechanism
B41J 29/387	2-Punkt Untergruppe	. . Automatic cut-off devices [5]
B41J 29/393	2-Punkt Untergruppe	. . Devices for controlling or analysing the entire machine [5]
B41J 29/40	1-Punkt Untergruppe	. Means for printing fixed, i.e. unchanging, matter in addition to selectable matter
B41J 29/42	1-Punkt Untergruppe	. Scales and indicators, e.g. for determining side margins
B41J 29/44	2-Punkt Untergruppe	. . for determining top and bottom margins or indicating exhaust of paper
B41J 29/46	1-Punkt Untergruppe	. Applications of alarms, e.g. responsive to approach of end of line (responsive to transfer-material breakage or exhaustion B41J 17/36, B41J 35/36)
B41J 29/48	2-Punkt Untergruppe	. . responsive to breakage or exhaustion of paper or approach of bottom of paper
B41J 29/50	1-Punkt Untergruppe	. Side-stop mechanisms
B41J 29/52	1-Punkt Untergruppe	. Top-and-bottom stop mechanisms
B41J 29/54	1-Punkt Untergruppe	. Locking devices applied to printing mechanisms
B41J 29/56	2-Punkt Untergruppe	. . and manually actuated

Symbol	Typ	Titel
B41J 29/58	2-Punkt Untergruppe	. . and automatically actuated
B41J 29/60	3-Punkt Untergruppe	. . . in response to failure of power supply
B41J 29/62	3-Punkt Untergruppe	. . . by the absence of paper to lock hammer mechanism
B41J 29/64	3-Punkt Untergruppe	. . . by a function of the printer to lock the keyboard
B41J 29/66	4-Punkt Untergruppe	. . . . Locking devices actuated when platen reaches the end of a line
B41J 29/68	3-Punkt Untergruppe	. . . by completion of a page or predetermined number of lines or exhaustion of paper to lock the keyboard
B41J 29/70	3-Punkt Untergruppe	. . . Interlocks between any two carriage-moving mechanisms, e.g. character-space, back-space, tabulation, carriage-return, or carriage-release mechanisms
		Ink ribbons; Ink-ribbon mechanisms
B41J 31/00	**Hauptgruppe**	**Ink ribbons (sheet material for duplicating or marking B41M 5/00; storing webs or tapes, e.g. on reels, B65H 75/00); Renovating or testing ink ribbons**
B41J 31/02	1-Punkt Untergruppe	. Ink ribbons characterised by the material from which they are woven
B41J 31/04	2-Punkt Untergruppe	. . woven from synthetic material
B41J 31/05	1-Punkt Untergruppe	. Ink ribbons having coatings other than impression-material coatings
B41J 31/06	2-Punkt Untergruppe	. . the coatings being directly on the base material, i.e. below impression-transfer material; Ink ribbons having base material impregnated with material other than impression material
B41J 31/08	2-Punkt Untergruppe	. . the coatings being superimposed on impression-transfer material
B41J 31/09	1-Punkt Untergruppe	. Ink ribbons characterised by areas carrying media for obliteration or removal of typing errors [4]
B41J 31/10	1-Punkt Untergruppe	. Ink ribbons having arrangements to facilitate threading through a machine
B41J 31/12	1-Punkt Untergruppe	. Ink ribbons having arrangements to prevent undesired contact between the impression-transfer material and machine parts or other articles
B41J 31/14	1-Punkt Untergruppe	. Renovating or testing ink ribbons
B41J 31/16	2-Punkt Untergruppe	. . while fitted in the machine using the ink ribbons
B41J 32/00	**Hauptgruppe**	**Ink-ribbon cartridges [3]**
B41J 32/02	1-Punkt Untergruppe	. for endless ribbons [3]
B41J 33/00	**Hauptgruppe**	**Apparatus or arrangements for feeding ink ribbons or like character-size impression-transfer material (ink-ribbon cartridges B41J 32/00)**
B41J 33/02	1-Punkt Untergruppe	. Ribbon arrangements
B41J 33/04	2-Punkt Untergruppe	. . mounted on moving carriages
B41J 33/06	2-Punkt Untergruppe	. . Ribbons associated, but not moving, with typewriter platens, e.g. extending transversely to the length of the platen
B41J 33/08	3-Punkt Untergruppe	. . . and extending parallel to the length of the platen
B41J 33/10	2-Punkt Untergruppe	. . Arrangements of endless ribbons
B41J 33/12	2-Punkt Untergruppe	. . Ribbons carried by coaxially-mounted spools
B41J 33/14	1-Punkt Untergruppe	. Ribbon-feed devices or mechanisms
B41J 33/16	2-Punkt Untergruppe	. . with drive applied to spool or spool spindle

Symbol	Typ	Titel
B41J 33/18	3-Punkt Untergruppe	. . . by ratchet mechanism (B41J 33/30 takes precedence)
B41J 33/20	3-Punkt Untergruppe	. . . by friction
B41J 33/22	3-Punkt Untergruppe	. . . by gears or pulleys
B41J 33/24	2-Punkt Untergruppe	. . with drive applied directly to ribbon
B41J 33/26	3-Punkt Untergruppe	. . . by rollers engaging the ribbon
B41J 33/28	3-Punkt Untergruppe	. . . by mechanism pulling or gripping the ribbon
B41J 33/30	2-Punkt Untergruppe	. . Escapement mechanisms
B41J 33/32	2-Punkt Untergruppe	. . Electromagnetic devices
B41J 33/34	2-Punkt Untergruppe	. . driven by motors independently of the machine as a whole
B41J 33/36	2-Punkt Untergruppe	. . with means for adjusting feeding rate
B41J 33/38	2-Punkt Untergruppe	. . Slow, e.g. "creep", feed mechanisms
B41J 33/382	3-Punkt Untergruppe	. . . the ribbon being fed only during carriage return
B41J 33/384	4-Punkt Untergruppe	. . . . and attached to the carriage during writing
B41J 33/386	3-Punkt Untergruppe	. . . the ribbon being fed only by operation of the line-spacing mechanism
B41J 33/388	3-Punkt Untergruppe	. . . the ribbon being fed only when type impression takes place
B41J 33/40	2-Punkt Untergruppe	. . with arrangements for reversing the feed direction
B41J 33/42	3-Punkt Untergruppe	. . . manually
B41J 33/44	3-Punkt Untergruppe	. . . automatically
B41J 33/46	4-Punkt Untergruppe	. . . . and characterised by its application to mechanism in which two spools are driven by pawl-and-rachet mechanism
B41J 33/48	5-Punkt Untergruppe	. . . . . comprising two pawls and ratchets, one for each spool
B41J 33/50	5-Punkt Untergruppe	. . . . . comprising a single pawl or integral double-tooth pawl selectively engageable with two ratchets, one for each spool
B41J 33/51	4-Punkt Untergruppe	. . . . and characterised by the use of particular reversing control means
B41J 33/512	5-Punkt Untergruppe	. . . . . using a pivoted reversing-feeler engaging the external periphery of the wound ribbon
B41J 33/514	5-Punkt Untergruppe	. . . . . using a pivoted reversing-feeler engaging the interior of the wound ribbon
B41J 33/516	5-Punkt Untergruppe	. . . . . using a reversing-feeler responsive to the tension of the ribbon
B41J 33/518	5-Punkt Untergruppe	. . . . . the reversing-feeler engaging buttons or the like secured to the ribbon near its ends
B41J 33/52	2-Punkt Untergruppe	. . Braking devices therefor
B41J 33/54	2-Punkt Untergruppe	. . for ensuring maximum life of the ribbon (B41J 33/38 takes precedence; by adjustment of vibrator mechanisms B41J 35/14)
B41J 33/56	3-Punkt Untergruppe	. . . Ribbon adjusted transversely
B41J 33/58	3-Punkt Untergruppe	. . . Ribbon fed angularly

Symbol	Typ	Titel
B41J 33/60	2-Punkt Untergruppe	. . responsive to telegraph code or other extraneous signals
B41J 35/00	**Hauptgruppe**	**Other apparatus or arrangements associated with, or incorporated in, ink-ribbon mechanisms**
B41J 35/02	1-Punkt Untergruppe	. Frames or holders for unwound short lengths of ink ribbons
B41J 35/03	2-Punkt Untergruppe	. . the holder being movable to inoperative position, e.g. by swinging upwardly
B41J 35/04	1-Punkt Untergruppe	. Ink-ribbon guides
B41J 35/06	2-Punkt Untergruppe	. . stationary
B41J 35/08	2-Punkt Untergruppe	. . with tensioning arrangements
B41J 35/10	2-Punkt Untergruppe	. . Vibrator mechanisms; Driving gear therefor
B41J 35/12	3-Punkt Untergruppe	. . . adjustable, e.g. for case shift (key actions B41J 25/02)
B41J 35/14	4-Punkt Untergruppe	. . . . for multicolour work; for ensuring maximum life of ink ribbon; for rendering ink ribbon inoperative
B41J 35/16	1-Punkt Untergruppe	. Multicolour arrangements (B41J 35/10 takes precedence)
B41J 35/18	2-Punkt Untergruppe	. . Colour change effected automatically
B41J 35/20	1-Punkt Untergruppe	. Ink-ribbon shifts, e.g. for exposing print, for case-shift adjustment, for rendering ink ribbon inoperative
B41J 35/22	1-Punkt Untergruppe	. Mechanisms permitting the selective use of a plurality of ink ribbons
B41J 35/23	2-Punkt Untergruppe	. . with two or more ribbon guides
B41J 35/24	1-Punkt Untergruppe	. Mechanisms specially adapted for feeding impression-transfer materials of foil form
B41J 35/26	1-Punkt Untergruppe	. Ink-ribbon shields or backings
B41J 35/28	1-Punkt Untergruppe	. Detachable carriers or holders for ink-ribbon mechanisms
B41J 35/30	1-Punkt Untergruppe	. Manifolding or like arrangements
B41J 35/32	2-Punkt Untergruppe	. . for producing a plurality of copies along the printing line by a single ink ribbon
B41J 35/34	2-Punkt Untergruppe	. . using a plurality of separate ink ribbons, e.g. including one hectographic ink ribbon
B41J 35/35	2-Punkt Untergruppe	. . using unwound short lengths of ink ribbons
B41J 35/36	1-Punkt Untergruppe	. Alarms, indicators, or feed-disabling devices responsive to ink-ribbon breakage or exhaustion
B41J 35/38	1-Punkt Untergruppe	. Feeding the ink ribbon to waste after use