

Symbol	Typ	Titel
<b>B</b>	<b>Sektion</b>	<b>PERFORMING OPERATIONS; TRANSPORTING</b>
<b>B41</b>	<b>Untersektion</b>	<b>PRINTING</b>
<b>B41</b>	<b>Klasse</b>	<b>PRINTING; LINING MACHINES; TYPEWRITERS; STAMPS [4]</b>
<b>B41J</b>	<b>Unterkategorie</b>	<b>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, <u>see the relevant subclasses</u>)</b>
		<b><u>Kinds of typewriters or of selective printing mechanisms</u></b>
<b>B41J 1/00</b>	<b>Hauptgruppe</b>	<b>Typewriters or selective printing mechanisms characterised by the mounting, arrangement, or disposition of the types or dies (non-selective embossing B44B 5/00) [1, 2006.01]</b>
B41J 1/02	1-Punkt Untergruppe	. with separate or detached types or dies [1, 2006.01]
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) [1, 2006.01]
B41J 1/06	2-Punkt Untergruppe	.. on power-operated levers or arms [1, 2006.01]
B41J 1/08	1-Punkt Untergruppe	. with types or dies carried on sliding bars or rods [1, 2006.01]
B41J 1/10	2-Punkt Untergruppe	.. on end surfaces thereof [1, 2006.01]
B41J 1/12	2-Punkt Untergruppe	.. on side surfaces thereof, e.g. fixed thereto [1, 2006.01]
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 [1, 2006.01])
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 [1, 2006.01]
B41J 1/18	1-Punkt Untergruppe	. with types or dies strung on wires or rods [1, 2006.01]
B41J 1/20	1-Punkt Untergruppe	. with types or dies mounted on endless bands or the like [1, 2006.01]
B41J 1/22	1-Punkt Untergruppe	. with types or dies mounted on carriers rotatable for selection [1, 2006.01]
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) [1, 2006.01]
B41J 1/26	3-Punkt Untergruppe	... Carriers moving for impression (B41J 1/27 takes precedence) [1, 3, 2006.01]
B41J 1/27	3-Punkt Untergruppe	... Carriers moving during impression [3, 2006.01]
B41J 1/28	3-Punkt Untergruppe	... Carriers stationary for impression, e.g. with the types or dies not moving relative to the carriers [1, 2006.01]
B41J 1/30	4-Punkt Untergruppe	.... with the types or dies moving relative to the carriers or mounted on flexible carriers [1, 2006.01]

Symbol	Typ	Titel
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) [1, 2006.01]
B41J 1/34	3-Punkt Untergruppe	... Carriers rotating during impression [1, 2006.01]
B41J 1/36	3-Punkt Untergruppe	... Carriers sliding for impression, e.g. manually operated [1, 2006.01]
B41J 1/38	4-Punkt Untergruppe	.... power operated [1, 2006.01]
B41J 1/40	3-Punkt Untergruppe	... Carriers swinging for impression [1, 2006.01]
B41J 1/42	4-Punkt Untergruppe	.... about an axis parallel to the axis of rotation of the carrier [1, 2006.01]
B41J 1/44	3-Punkt Untergruppe	... Carriers stationary for impression [1, 2006.01]
B41J 1/46	4-Punkt Untergruppe	.... Types or dies fixed on wheel, drum, cylinder, or like carriers [1, 2006.01]
B41J 1/48	5-Punkt Untergruppe	..... with a plurality of carriers, one for each character space [1, 2006.01]
B41J 1/50	5-Punkt Untergruppe	..... with one or more carriers travelling across copy material in letter-space direction [1, 2006.01]
B41J 1/52	5-Punkt Untergruppe	..... with copy material moving in the letter-space direction, and carrier mounting being fixed relative to the machine [1, 2006.01]
B41J 1/54	4-Punkt Untergruppe	.... Types or dies movable on wheel, drum, cylinder, or like carriers [1, 2006.01]
B41J 1/56	4-Punkt Untergruppe	.... Types or dies on shuttles or like loose carriers [1, 2006.01]
B41J 1/58	4-Punkt Untergruppe	.... Types or dies upon arcuate bars [1, 2006.01]
B41J 1/60	1-Punkt Untergruppe	. with types or dies on spherical, truncated-spherical, or like surfaces [1, 2006.01]
<b>B41J 2/00</b>	<b>Hauptgruppe</b>	<b>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, 2006.01]</b>
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, 2006.01]
B41J 2/01	2-Punkt Untergruppe	... Ink jet [5, 2006.01]
B41J 2/015	3-Punkt Untergruppe	... characterised by the jet generation process (B41J 2/215 takes precedence) [5, 2006.01]
B41J 2/02	4-Punkt Untergruppe	.... generating a continuous ink jet [5, 2006.01]
B41J 2/025	5-Punkt Untergruppe	..... by vibration [5, 2006.01]
B41J 2/03	5-Punkt Untergruppe	..... by pressure [5, 2006.01]
B41J 2/035	5-Punkt Untergruppe	..... by electric or magnetic field [5, 2006.01]
B41J 2/04	4-Punkt Untergruppe	.... generating single droplets or particles on demand [5, 2006.01]
B41J 2/045	5-Punkt Untergruppe	.... by pressure, e.g. electromechanical transducers [5, 2006.01]
B41J 2/05	6-Punkt Untergruppe	..... produced by the application of heat [5, 2006.01]
B41J 2/055	6-Punkt Untergruppe	..... Devices for absorbing or preventing back-pressure [5, 2006.01]
B41J 2/06	5-Punkt Untergruppe	..... by electric or magnetic field [5, 2006.01]

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B41J 2/065	6-Punkt Untergruppe	..... involving the preliminary making of ink protuberances [5, 2006.01]
B41J 2/07	3-Punkt Untergruppe	... characterised by jet control (B41J 2/205 takes precedence) [5, 2006.01]
B41J 2/075	4-Punkt Untergruppe	.... for many-valued deflection [5, 2006.01]
B41J 2/08	5-Punkt Untergruppe	..... charge-control type [5, 2006.01]
B41J 2/085	6-Punkt Untergruppe	..... Charge means, e.g. electrodes [5, 2006.01]
B41J 2/09	6-Punkt Untergruppe	..... Deflection means [5, 2006.01]
B41J 2/095	5-Punkt Untergruppe	..... electric field-control type [5, 2006.01]
B41J 2/10	5-Punkt Untergruppe	..... magnetic field-control type [5, 2006.01]
B41J 2/105	4-Punkt Untergruppe	.... for binary-valued deflection [5, 2006.01]
B41J 2/11	4-Punkt Untergruppe	.... for ink spray [5, 2006.01]
B41J 2/115	4-Punkt Untergruppe	.... synchronising the droplet separation and charging time [5, 2006.01]
B41J 2/12	4-Punkt Untergruppe	.... testing or correcting charge or deflection [5, 2006.01]
B41J 2/125	4-Punkt Untergruppe	.... Sensors, e.g. deflection sensors [5, 2006.01]
B41J 2/13	4-Punkt Untergruppe	.... for inclination of printed pattern [5, 2006.01]
B41J 2/135	3-Punkt Untergruppe	... Nozzles [5, 2006.01]
B41J 2/14	4-Punkt Untergruppe	.... Structure thereof [5, 2006.01]
B41J 2/145	4-Punkt Untergruppe	.... Arrangement thereof [5, 2006.01]
B41J 2/15	5-Punkt Untergruppe	.... for serial printing [5, 2006.01]
B41J 2/155	5-Punkt Untergruppe	.... for line printing [5, 2006.01]
B41J 2/16	4-Punkt Untergruppe	.... Production of nozzles [5, 2006.01]
B41J 2/165	4-Punkt Untergruppe	.... Prevention of nozzle clogging, e.g. cleaning, capping or moistening for nozzles [5, 2006.01]
B41J 2/17	3-Punkt Untergruppe	... characterised by ink handling [5, 2006.01]
B41J 2/175	4-Punkt Untergruppe	.... Ink supply systems [5, 2006.01]
B41J 2/18	4-Punkt Untergruppe	.... Ink recirculation systems [5, 2006.01]
B41J 2/185	5-Punkt Untergruppe	.... Ink-collectors; Ink-catchers [5, 2006.01]
B41J 2/19	4-Punkt Untergruppe	.... for removing air bubbles [5, 2006.01]
B41J 2/195	4-Punkt Untergruppe	.... for monitoring ink quality [5, 2006.01]
B41J 2/20	4-Punkt Untergruppe	.... for preventing or detecting contamination of compounds [5, 2006.01]
B41J 2/205	3-Punkt Untergruppe	... for printing a discrete number of tones (B41J 2/21 takes precedence) [5, 2006.01]
B41J 2/21	3-Punkt Untergruppe	... for multi-colour printing [5, 2006.01]
B41J 2/215	2-Punkt Untergruppe	.. by passing a medium, e.g. consisting of an air or particle stream, through an ink mist [5, 2006.01]

Symbol	Typ	Titel
B41J 2/22	1-Punkt Untergruppe	. characterised by selective application of impact or pressure on a printing material or impression-transfer material [5, 2006.01]
B41J 2/225	2-Punkt Untergruppe	... ballistic, e.g. using solid balls or pellets [5, 2006.01]
B41J 2/23	2-Punkt Untergruppe	... using print wires [5, 2006.01]
B41J 2/235	3-Punkt Untergruppe	... Print head assemblies [5, 2006.01]
B41J 2/24	4-Punkt Untergruppe	.... serial printer type (B41J 2/25, B41J 2/265 take precedence) [5, 2006.01]
B41J 2/245	4-Punkt Untergruppe	.... line printer type (B41J 2/25, B41J 2/265 take precedence) [5, 2006.01]
B41J 2/25	4-Punkt Untergruppe	.... Print wires [5, 2006.01]
B41J 2/255	5-Punkt Untergruppe	..... Arrangement of the print ends of the wires [5, 2006.01]
B41J 2/26	5-Punkt Untergruppe	..... Connection of print wire and actuator [5, 2006.01]
B41J 2/265	4-Punkt Untergruppe	.... Guides for print wires [5, 2006.01]
B41J 2/27	3-Punkt Untergruppe	... Actuators for print wires [5, 2006.01]
B41J 2/275	4-Punkt Untergruppe	.... of clapper type (B41J 2/28 takes precedence) [5, 2006.01]
B41J 2/28	4-Punkt Untergruppe	.... of spring charge type, i.e. with mechanical power under electro-magnetic control [5, 2006.01]
B41J 2/285	4-Punkt Untergruppe	.... of plunger type [5, 2006.01]
B41J 2/29	4-Punkt Untergruppe	.... of moving-coil type [5, 2006.01]
B41J 2/295	4-Punkt Untergruppe	.... using piezo-electric elements [5, 2006.01]
B41J 2/30	3-Punkt Untergruppe	... Control circuits for actuators [5, 2006.01]
B41J 2/305	3-Punkt Untergruppe	... Ink supply apparatus (ink ribbons, ink-ribbon mechanisms B41J 31/00-B41J 35/00) [5, 2006.01]
B41J 2/31	2-Punkt Untergruppe	... using a print element with projections on its surface impacted or impressed by hammers [5, 2006.01]
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, 2006.01]
B41J 2/32	2-Punkt Untergruppe	... using thermal heads [5, 2006.01]
B41J 2/325	3-Punkt Untergruppe	... by selective transfer of ink from ink carrier, e.g. from ink ribbon or sheet [5, 2006.01]
B41J 2/33	4-Punkt Untergruppe	.... from ink roller [5, 2006.01]
B41J 2/335	3-Punkt Untergruppe	... Structure of thermal heads [5, 2006.01]
B41J 2/34	4-Punkt Untergruppe	.... comprising semiconductors [5, 2006.01]
B41J 2/345	3-Punkt Untergruppe	... characterised by the arrangement of resistors or conductors [5, 2006.01]
B41J 2/35	3-Punkt Untergruppe	... providing current or voltage to the thermal head [5, 2006.01]
B41J 2/355	4-Punkt Untergruppe	.... Control circuits for heating-element selection [5, 2006.01]
B41J 2/36	5-Punkt Untergruppe	..... Print density control [5, 2006.01]
B41J 2/365	6-Punkt Untergruppe	..... by compensation for variation in temperature [5, 2006.01]
B41J 2/37	6-Punkt Untergruppe	..... by compensation for variation in current [5, 2006.01]

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B41J 2/375	3-Punkt Untergruppe	... Protection arrangements against overheating [5, 2006.01]
B41J 2/38	2-Punkt Untergruppe	... Preheating, i.e. heating to a temperature insufficient to cause printing [5, 2006.01]
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, 2006.01]
B41J 2/39	2-Punkt Untergruppe	... using multi-stylus heads [5, 2006.01]
B41J 2/395	3-Punkt Untergruppe	... Structure of multi-stylus heads [5, 2006.01]
B41J 2/40	3-Punkt Untergruppe	... providing current or voltage to the multi-stylus head [5, 2006.01]
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, 2006.01]
B41J 2/41	2-Punkt Untergruppe	... for electrostatic printing (B41J 2/39 takes precedence) [5, 2006.01]
B41J 2/415	3-Punkt Untergruppe	... by passing charged particles through a hole or a slit [5, 2006.01]
B41J 2/42	2-Punkt Untergruppe	... for heating selectively [5, 2006.01]
B41J 2/425	2-Punkt Untergruppe	... for removing surface layer selectively from electro-sensitive material, e.g. metal coated paper [5, 2006.01]
B41J 2/43	2-Punkt Untergruppe	... for magnetic printing [5, 2006.01]
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, 2006.01]
B41J 2/44	2-Punkt Untergruppe	... using single radiation source, e.g. lighting beams or shutter arrangements (B41J 2/475 takes precedence) [5, 2006.01]
B41J 2/445	3-Punkt Untergruppe	... using liquid crystals [5, 2006.01]
B41J 2/447	2-Punkt Untergruppe	... using arrays of radiation sources (B41J 2/475 takes precedence) [6, 2006.01]
B41J 2/45	3-Punkt Untergruppe	... using light-emitting diode arrays [5, 2006.01]
B41J 2/455	3-Punkt Untergruppe	... using laser arrays [5, 2006.01]
B41J 2/46	3-Punkt Untergruppe	... characterised by using glass fibres [5, 2006.01]
B41J 2/465	2-Punkt Untergruppe	... using masks, e.g. light-switching masks (photographic composing B41B) [5, 2006.01]
B41J 2/47	2-Punkt Untergruppe	... using the combination of scanning and modulation of light [5, 2006.01]
B41J 2/475	2-Punkt Untergruppe	... for heating selectively [5, 2006.01]
B41J 2/48	3-Punkt Untergruppe	... melting ink on a film or melting ink granules [5, 2006.01]
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, 2006.01]
B41J 2/49	2-Punkt Untergruppe	... by writing [5, 2006.01]
B41J 2/495	2-Punkt Untergruppe	... by selective printing from a rotating helical member [5, 2006.01]
B41J 2/50	2-Punkt Untergruppe	... by the selective combination of two or more non-identical printing elements [5, 2006.01]
B41J 2/505	2-Punkt Untergruppe	... from an assembly of identical printing elements [5, 2006.01]

Symbol	Typ	Titel
B41J 2/51	3-Punkt Untergruppe	... serial printer type [5, 2006.01]
B41J 2/515	3-Punkt Untergruppe	... line printer type [5, 2006.01]
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, 2006.01]
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, 2006.01]
<b>B41J 3/00</b>	<b>Hauptgruppe</b>	<b>Typewriters or selective printing or marking mechanisms characterised by the purpose for which they are constructed (cryptographic typewriters G09C 3/00) [1, 5, 2006.01]</b>
B41J 3/01	1-Punkt Untergruppe	. for special character, e.g. for Chinese characters or barcodes [5, 2006.01]
B41J 3/24	1-Punkt Untergruppe	. for perforating or stencil cutting using special types or dies [1, 2006.01]
B41J 3/26	1-Punkt Untergruppe	. for stenographic writing [1, 2006.01]
B41J 3/28	1-Punkt Untergruppe	. for printing downwardly on flat surfaces, e.g. of books, drawings, boxes [1, 2006.01]
B41J 3/30	1-Punkt Untergruppe	. for printing with large type, e.g. on bulletins, tickets [1, 2006.01]
B41J 3/32	1-Punkt Untergruppe	. for printing in Braille or with keyboards specially adapted for use by blind or disabled persons [1, 2006.01]
B41J 3/34	1-Punkt Untergruppe	. for printing musical scores [1, 2006.01]
B41J 3/36	1-Punkt Untergruppe	. for portability [1, 2006.01]
B41J 3/37	2-Punkt Untergruppe	... Foldable typewriters [5, 2006.01]
B41J 3/38	1-Punkt Untergruppe	. for embossing, e.g. for making matrices for stereotypes [1, 2006.01]
B41J 3/39	2-Punkt Untergruppe	... hand-held (manually-controlled or manually-operable label dispensers having printing equipment B65C 11/02) [5, 2006.01]
B41J 3/407	1-Punkt Untergruppe	. for marking on special material (printing on special surfaces B41F 17/00) [5, 2006.01]
B41J 3/413	2-Punkt Untergruppe	... for metal [5, 2006.01]
B41J 3/42	1-Punkt Untergruppe	. Two or more complete typewriters coupled for simultaneous operation [1, 2006.01]
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) [1, 2006.01]
B41J 3/46	2-Punkt Untergruppe	... Printing mechanisms combined with apparatus providing a visual indication [1, 2006.01]
B41J 3/50	2-Punkt Untergruppe	... Mechanisms producing characters by printing and also producing a record by other means (punching mechanisms G06K) [1, 5, 2006.01]
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) [1, 5, 2006.01]
B41J 3/54	1-Punkt Untergruppe	. with two or more sets of type or printing elements (B41J 3/60 takes precedence) [1, 5, 2006.01]
B41J 3/60	1-Punkt Untergruppe	. for printing on both faces of the printing material [5, 2006.01]
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, 2006.01]
<b><u>Common details or accessories</u></b>		
<b>B41J 5/00</b>	<b>Hauptgruppe</b>	<b>Devices or arrangements for controlling character selection (methods or arrangements for sensing record carriers G06K 7/00) [1, 2006.01]</b>

Symbol	Typ	Titel
B41J 5/02	1-Punkt Untergruppe	. Character or syllable selected by setting an index [1, 2006.01]
B41J 5/04	2-Punkt Untergruppe	... Single-character selection [1, 2006.01]
B41J 5/06	2-Punkt Untergruppe	... Multiple-character selection [1, 2006.01]
B41J 5/08	1-Punkt Untergruppe	. Character or syllable selected by means of keys or keyboards of the typewriter type [1, 2006.01]
B41J 5/10	2-Punkt Untergruppe	... Arrangements of keyboards [1, 2006.01]
B41J 5/12	2-Punkt Untergruppe	... Construction of key buttons [1, 2006.01]
B41J 5/14	2-Punkt Untergruppe	... Construction of key levers [1, 2006.01]
B41J 5/16	2-Punkt Untergruppe	... Mounting or connecting key buttons on or to key levers [1, 2006.01]
B41J 5/18	2-Punkt Untergruppe	... Locks [1, 2006.01]
B41J 5/20	3-Punkt Untergruppe	... for subsidiary keys, e.g. for shift keys [1, 2006.01]
B41J 5/22	3-Punkt Untergruppe	... Interlocks between keys, e.g. without detent arrangements [1, 2006.01]
B41J 5/24	4-Punkt Untergruppe	.... with detent arrangements [1, 2006.01]
B41J 5/26	2-Punkt Untergruppe	.. Regulating touch, key dip or stroke, or the like [1, 2006.01]
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 [1, 2006.01]
B41J 5/30	1-Punkt Untergruppe	. Character or syllable selection controlled by recorded information [1, 2006.01]
B41J 5/31	2-Punkt Untergruppe	.. characterised by form of recorded information [1, 2006.01]
B41J 5/32	3-Punkt Untergruppe	... by printed, embossed, or photographic records, e.g. cards, sheets [1, 2006.01]
B41J 5/34	4-Punkt Untergruppe	.... by strips or tapes [1, 2006.01]
B41J 5/36	3-Punkt Untergruppe	... by punched records, e.g. cards, sheets [1, 2006.01]
B41J 5/38	4-Punkt Untergruppe	.... by strips or tapes [1, 2006.01]
B41J 5/40	3-Punkt Untergruppe	... by magnetic or electrostatic records, e.g. cards, sheets [1, 2006.01]
B41J 5/42	4-Punkt Untergruppe	.... by strips or tapes [1, 2006.01]
B41J 5/44	2-Punkt Untergruppe	.. characterised by the kind of storage of recorded information [1, 2006.01]
B41J 5/46	3-Punkt Untergruppe	... the storage being on internal storages [1, 2006.01]
B41J 5/48	3-Punkt Untergruppe	... the storage being on external storages [1, 2006.01]
B41J 5/50	4-Punkt Untergruppe	.... on a single storage [1, 2006.01]
B41J 5/51	4-Punkt Untergruppe	.... on more than one separate storage, e.g. on additional correction strips or tapes [3, 2006.01]
B41J 5/52	2-Punkt Untergruppe	.. characterised by the provision of additional devices for producing a punched or like record, e.g. simultaneously [1, 2006.01]
<b>B41J 7/00</b>	<b>Hauptgruppe</b>	<b>Type-selecting or type-actuating mechanisms (index setting B41J 5/02) [1, 2006.01]</b>
B41J 7/02	1-Punkt Untergruppe	. Type-lever actuating mechanisms [1, 2006.01]
B41J 7/04	2-Punkt Untergruppe	.. Levers mounted on fixed pivots [1, 2006.01]

Symbol	Typ	Titel
B41J 7/06	3-Punkt Untergruppe	... and connected to transmission members, e.g. toothed gearing [1, 2006.01]
B41J 7/08	4-Punkt Untergruppe	.... with pin-and-slot or like loose connections; Cam-slot members [1, 2006.01]
B41J 7/10	4-Punkt Untergruppe	.... Chain, belt, flexible-cable, or like members [1, 2006.01]
B41J 7/12	3-Punkt Untergruppe	... U-shaped type-lever on two pivots [1, 2006.01]
B41J 7/14	3-Punkt Untergruppe	... Single key-and-type lever [1, 2006.01]
B41J 7/16	3-Punkt Untergruppe	... Type-head pivoted to, or rotating on, lever [1, 2006.01]
B41J 7/18	2-Punkt Untergruppe	... Levers having moving or variable fulcras to alter the mechanical advantage during the stroke [1, 2006.01]
B41J 7/20	2-Punkt Untergruppe	... Levers having moving pivots fixed relative to the lever; Type-bars each pivoted on two links [1, 2006.01]
B41J 7/22	2-Punkt Untergruppe	... Type-baskets; Bearings or hangers for type-levers [1, 2006.01]
B41J 7/24	2-Punkt Untergruppe	... Construction of type-levers (U-shaped levers B41J 7/12) [1, 2006.01]
B41J 7/26	2-Punkt Untergruppe	... Special means, e.g. repulsers, for ensuring return of type-levers [1, 2006.01]
B41J 7/28	2-Punkt Untergruppe	... Key-lever and type-member returned independently to rest position [1, 2006.01]
B41J 7/30	2-Punkt Untergruppe	... Preventing rebound or clash of levers or type-members [1, 2006.01]
B41J 7/32	1-Punkt Untergruppe	. Type-face selected by operation of sliding members [1, 2006.01]
B41J 7/34	1-Punkt Untergruppe	. Type-face selected by operation of rotary members [1, 2006.01]
B41J 7/36	1-Punkt Untergruppe	. Selecting arrangements applied to type-carriers rotating during impression [1, 2006.01]
B41J 7/38	2-Punkt Untergruppe	... Type movable on carrier for selection [1, 2006.01]
B41J 7/40	2-Punkt Untergruppe	... Type movable on carrier for impression [1, 2006.01]
B41J 7/42	2-Punkt Untergruppe	... Timed impression, e.g. without impact [1, 2006.01]
B41J 7/44	3-Punkt Untergruppe	... with impact [1, 2006.01]
B41J 7/46	2-Punkt Untergruppe	... Rolling contact during impression [1, 2006.01]
B41J 7/48	1-Punkt Untergruppe	. Type-carrier arrested in selected position by electromagnetic means [1, 2006.01]
B41J 7/50	1-Punkt Untergruppe	. Type-face selected by combinations of two movements of type-carrier [1, 2006.01]
B41J 7/52	2-Punkt Untergruppe	... by combined rotary and sliding movement [1, 2006.01]
B41J 7/54	1-Punkt Untergruppe	. Selecting arrangements including combination, permutation, summation, or aggregation means [1, 2006.01]
B41J 7/56	2-Punkt Untergruppe	... Summation devices for mechanical movements [1, 2006.01]
B41J 7/58	3-Punkt Untergruppe	... Wedges [1, 2006.01]
B41J 7/60	3-Punkt Untergruppe	... Levers [1, 2006.01]
B41J 7/62	3-Punkt Untergruppe	... Gearing [1, 2006.01]
B41J 7/64	3-Punkt Untergruppe	... Pulley-and-strand mechanism [1, 2006.01]
B41J 7/66	2-Punkt Untergruppe	... Movable members, e.g. pins, displaceable according to a code [1, 2006.01]
B41J 7/68	2-Punkt Untergruppe	... with means for selectively closing an electric circuit for type presentation [1, 2006.01]

Symbol	Typ	Titel
B41J 7/90	1-Punkt Untergruppe	. Syllable, line, or like type selection [1, 2006.01]
B41J 7/92	1-Punkt Untergruppe	. Impact adjustment; Means to give uniformity of impression (B41J 9/46, B41J 9/48 take precedence) [1, 5, 2006.01]
B41J 7/94	2-Punkt Untergruppe	.. Character-by-character adjustment [1, 2006.01]
B41J 7/96	1-Punkt Untergruppe	. Means for checking correctness of setting [1, 2006.01]
<b>B41J 9/00</b>	<b>Hauptgruppe</b>	<b>Hammer-impression mechanisms [1, 2006.01]</b>
B41J 9/02	1-Punkt Untergruppe	. Hammers; Arrangements thereof [1, 2006.01]
B41J 9/04	2-Punkt Untergruppe	.. of single hammers, e.g. travelling along printing line [1, 2006.01]
B41J 9/06	3-Punkt Untergruppe	... of stationary hammers, e.g. engaging a single type-carrier [1, 2006.01]
B41J 9/08	4-Punkt Untergruppe	.... engaging more than one type-carrier [1, 2006.01]
B41J 9/10	2-Punkt Untergruppe	... of more than one hammer, e.g. one for each character position [1, 2006.01]
B41J 9/12	3-Punkt Untergruppe	... each operating in more than one character position [1, 2006.01]
B41J 9/127	2-Punkt Untergruppe	... Mounting of hammers [3, 2006.01]
B41J 9/133	2-Punkt Untergruppe	... Construction of hammer body or tip [3, 2006.01]
B41J 9/14	1-Punkt Untergruppe	. Means for selecting or suppressing individual hammers [1, 2006.01]
B41J 9/16	1-Punkt Untergruppe	. Means for cocking or resetting hammers [1, 2006.01]
B41J 9/18	2-Punkt Untergruppe	.. Cams [1, 2006.01]
B41J 9/20	2-Punkt Untergruppe	.. Springs [1, 2006.01]
B41J 9/22	2-Punkt Untergruppe	.. Fluid-pressure means [1, 2006.01]
B41J 9/24	2-Punkt Untergruppe	.. Electromagnetic means [1, 2006.01]
B41J 9/26	1-Punkt Untergruppe	. Means for operating hammers to effect impression [1, 2006.01]
B41J 9/28	2-Punkt Untergruppe	.. Cams [1, 2006.01]
B41J 9/30	2-Punkt Untergruppe	.. Springs [1, 2006.01]
B41J 9/32	2-Punkt Untergruppe	.. arranged to be clutched to snatch roll [1, 2006.01]
B41J 9/34	2-Punkt Untergruppe	.. Fluid-pressure means [1, 2006.01]
B41J 9/36	2-Punkt Untergruppe	.. in which mechanical power is applied under electromagnetic control [1, 2006.01]
B41J 9/38	2-Punkt Untergruppe	.. Electromagnetic means [1, 2006.01]
B41J 9/40	2-Punkt Untergruppe	.. including an electro-adhesive clutch [1, 2006.01]
B41J 9/42	1-Punkt Untergruppe	. with anti-rebound arrangements [1, 2006.01]
B41J 9/44	1-Punkt Untergruppe	. Control for hammer-impression mechanisms [5, 2006.01]
B41J 9/46	2-Punkt Untergruppe	.. for deciding or adjusting hammer-firing time [5, 2006.01]
B41J 9/48	2-Punkt Untergruppe	.. for deciding or adjusting hammer-drive energy [5, 2006.01]

Symbol	Typ	Titel
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, 2006.01]
B41J 9/52	2-Punkt Untergruppe	... for checking the operation of print hammers [5, 2006.01]
B41J 9/54	3-Punkt Untergruppe	... for checking the breakage of print hammers [5, 2006.01]
<b>B41J 11/00</b>	<b>Hauptgruppe</b>	<b>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) [1, 2006.01]</b>
B41J 11/02	1-Punkt Untergruppe	. Platens [1, 2006.01]
B41J 11/04	2-Punkt Untergruppe	... Roller platens [1, 2006.01]
B41J 11/053	3-Punkt Untergruppe	... with sound-deadening devices (structure of surface B41J 11/057) [3, 2006.01]
B41J 11/057	3-Punkt Untergruppe	... Structure of the surface [3, 2006.01]
B41J 11/06	2-Punkt Untergruppe	... Flat page-size platens [1, 2006.01]
B41J 11/08	2-Punkt Untergruppe	... Bar or like line-size platens [1, 2006.01]
B41J 11/10	2-Punkt Untergruppe	... Anvil or like character-size platens [1, 2006.01]
B41J 11/13	2-Punkt Untergruppe	... Backings or blankets (for roller platens B41J 11/057) [3, 2006.01]
B41J 11/14	2-Punkt Untergruppe	... Platen-shift mechanisms; Driving gear therefor [1, 2006.01]
B41J 11/16	2-Punkt Untergruppe	... with balancing means [1, 2006.01]
B41J 11/18	1-Punkt Untergruppe	. Platen-impression arrangements [1, 2006.01]
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 [1, 2006.01]
B41J 11/22	1-Punkt Untergruppe	. Paper-carriage guides or races [1, 2006.01]
B41J 11/24	1-Punkt Untergruppe	. Detents, brakes, or couplings for feed rollers or platens [1, 2006.01]
B41J 11/26	1-Punkt Untergruppe	. Pin feeds [1, 2006.01]
B41J 11/27	2-Punkt Untergruppe	... on or within the platen-rollers [1, 2006.01]
B41J 11/28	2-Punkt Untergruppe	... Pin wheels [1, 2006.01]
B41J 11/30	2-Punkt Untergruppe	... Pin traction elements other than wheels, e.g. pins on endless bands [1, 2006.01]
B41J 11/32	2-Punkt Untergruppe	... Adjustment of pin wheels or traction elements, e.g. laterally [1, 2006.01]
B41J 11/34	2-Punkt Untergruppe	... Guides coacting with pin feeds [1, 2006.01]
B41J 11/36	1-Punkt Untergruppe	. Blanking or long feeds; Feeding to a particular line, e.g. by rotation of platen or feed roller [1, 2006.01]
B41J 11/38	2-Punkt Untergruppe	... Manually-operated feeding devices [1, 2006.01]
B41J 11/40	2-Punkt Untergruppe	... specially adapted for printing musical scores [1, 2006.01]
B41J 11/42	2-Punkt Untergruppe	... Controlling [1, 2006.01]
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 [1, 2006.01]
B41J 11/46	3-Punkt Untergruppe	... by marks or formations on the paper being fed [1, 2006.01]

Symbol	Typ	Titel
B41J 11/48	1-Punkt Untergruppe	. Apparatus for condensed record, tally strip, or like work using two or more papers, or sets of papers [1, 2006.01]
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 [1, 2006.01]
B41J 11/51	3-Punkt Untergruppe	... with different feed rates [3, 2006.01]
B41J 11/52	2-Punkt Untergruppe	... in which one paper or set is moved transversely relative to another [1, 2006.01]
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 [1, 2006.01]
B41J 11/54	2-Punkt Untergruppe	... in which one paper or set is fed towards printing position from the front of the apparatus [1, 2006.01]
B41J 11/55	3-Punkt Untergruppe	... with means for adjusting a paper or set [3, 2006.01]
B41J 11/56	1-Punkt Untergruppe	. specially constructed to facilitate storage or transport of typewriter [1, 2006.01]
B41J 11/58	1-Punkt Untergruppe	. Supply holders for sheets or fan-folded webs, e.g. shelves, tables, scrolls, pile holders [1, 2006.01]
B41J 11/60	1-Punkt Untergruppe	. Erasing or correcting tables [1, 2006.01]
B41J 11/62	1-Punkt Untergruppe	. Shields or masks [1, 2006.01]
B41J 11/64	1-Punkt Untergruppe	. Applications of scales or indicators [1, 2006.01]
B41J 11/66	1-Punkt Untergruppe	. Applications of cutting devices [1, 2006.01]
B41J 11/68	2-Punkt Untergruppe	... cutting parallel to the direction of paper feed [1, 2006.01]
B41J 11/70	2-Punkt Untergruppe	... cutting perpendicular to the direction of paper feed [1, 2006.01]
<b>B41J 13/00</b>	<b>Hauptgruppe</b>	<b>Devices or arrangements specially adapted for supporting or handling copy material in short lengths, e.g. sheets [1, 2006.01]</b>
B41J 13/02	1-Punkt Untergruppe	. Rollers (roller platens B41J 11/04) [1, 2006.01]
B41J 13/03	2-Punkt Untergruppe	... driven, e.g. feed rollers separate from platen [1, 2006.01]
B41J 13/036	2-Punkt Untergruppe	... co-operating with a roller platen [3, 2006.01]
B41J 13/042	3-Punkt Untergruppe	... Front and rear rollers or sets of front or rear rollers each mounted on a separate carrier [3, 2006.01]
B41J 13/048	3-Punkt Untergruppe	... Front and rear rollers both mounted on a common carrier [3, 2006.01]
B41J 13/054	4-Punkt Untergruppe	.... on the paper apron concentric with the roller platen [3, 2006.01]
B41J 13/076	2-Punkt Untergruppe	... Construction of rollers; Bearings therefor [1, 2006.01]
B41J 13/08	1-Punkt Untergruppe	. Bands or like feeding devices [1, 2006.01]
B41J 13/10	1-Punkt Untergruppe	. Sheet holders, retainers, or stationary guides [1, 2006.01]
B41J 13/12	2-Punkt Untergruppe	... specially adapted for cards, envelopes, or the like [1, 2006.01]
B41J 13/14	2-Punkt Untergruppe	... Aprons or guides [1, 2006.01]
B41J 13/16	3-Punkt Untergruppe	... movable for insertion or release of sheets [1, 2006.01]
B41J 13/18	3-Punkt Untergruppe	... concentric with roller platen [1, 2006.01]
B41J 13/20	2-Punkt Untergruppe	... Bails [1, 2006.01]

Symbol	Typ	Titel
B41J 13/22	2-Punkt Untergruppe	... Clamps or grippers [1, 2006.01]
B41J 13/24	2-Punkt Untergruppe	... Strips for supporting or holding papers [1, 2006.01]
B41J 13/26	1-Punkt Untergruppe	. Registering devices [1, 2006.01]
B41J 13/28	2-Punkt Untergruppe	... Front lays, stops, or gauges [1, 2006.01]
B41J 13/30	2-Punkt Untergruppe	... Side lays or gauges [1, 2006.01]
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 [1, 2006.01]
<b>B41J 15/00</b>	<b>Hauptgruppe</b>	<b>Devices or arrangements specially adapted for supporting or handling copy material in continuous form, e.g. webs [1, 2006.01]</b>
B41J 15/02	1-Punkt Untergruppe	. Web rolls or spindles; Attaching webs to cores or spindles [1, 2006.01]
B41J 15/04	1-Punkt Untergruppe	. Supporting, feeding, or guiding devices; Mountings for web rolls or spindles [1, 2006.01]
B41J 15/06	2-Punkt Untergruppe	... characterised by being applied to printers having stationary carriages [1, 2006.01]
B41J 15/08	2-Punkt Untergruppe	... characterised by being applied to printers having transversely-moving carriages [1, 2006.01]
B41J 15/10	3-Punkt Untergruppe	... and mounted on the carriage [1, 2006.01]
B41J 15/12	3-Punkt Untergruppe	... and coupled to the carriage [1, 2006.01]
B41J 15/14	3-Punkt Untergruppe	... and detached from the carriage [1, 2006.01]
B41J 15/16	1-Punkt Untergruppe	. Means for tensioning or winding the web [1, 2006.01]
B41J 15/18	1-Punkt Untergruppe	. Multiple-web feeding apparatus [1, 2006.01]
B41J 15/20	2-Punkt Untergruppe	... for webs superimposed during printing (machines for separating superposed webs B65H 41/00) [1, 2006.01]
B41J 15/22	2-Punkt Untergruppe	... for feeding webs in separate paths during printing [1, 2006.01]
B41J 15/24	2-Punkt Untergruppe	... with means for registering the webs with each other [1, 2006.01]
<b>B41J 17/00</b>	<b>Hauptgruppe</b>	<b>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) [1, 2006.01]</b>
B41J 17/02	1-Punkt Untergruppe	. Feeding mechanisms [1, 2006.01]
B41J 17/04	2-Punkt Untergruppe	... Feed dependent on the record-paper feed, e.g. both moved at the same time [1, 2006.01]
B41J 17/06	3-Punkt Untergruppe	... "Creep" feed, i.e. impression-transfer material fed slower than the record paper [1, 2006.01]
B41J 17/07	3-Punkt Untergruppe	... electromagnetically controlled [1, 2006.01]
B41J 17/08	2-Punkt Untergruppe	... Feed independent of the record-paper feed [1, 2006.01]
B41J 17/10	3-Punkt Untergruppe	... electromagnetically controlled [1, 2006.01]
B41J 17/12	2-Punkt Untergruppe	... Special adaptations for ensuring maximum life [1, 2006.01]
B41J 17/14	2-Punkt Untergruppe	... Automatic arrangements for reversing the feed direction [1, 2006.01]
B41J 17/16	1-Punkt Untergruppe	. Holders in the machine for sheets of impression-transfer material [1, 2006.01]
B41J 17/18	2-Punkt Untergruppe	... pivotable to and from the platen [1, 2006.01]
B41J 17/20	2-Punkt Untergruppe	... slidable to and from the platen [1, 2006.01]

Symbol	Typ	Titel
B41J 17/22	1-Punkt Untergruppe	. Supply arrangements for webs or impression-transfer material [1, 2006.01]
B41J 17/24	2-Punkt Untergruppe	.. Webs supplied from reels or spools attached to the machine (reels <u>per se</u> B65H 75/02) [1, 2006.01]
B41J 17/26	2-Punkt Untergruppe	.. Webs supplied from trays or like supports attached to the machines [1, 2006.01]
B41J 17/28	1-Punkt Untergruppe	. Arrangements of guides for the impression-transfer material [1, 2006.01]
B41J 17/30	1-Punkt Untergruppe	. Constructions of guides for the impression-transfer material [1, 2006.01]
B41J 17/32	1-Punkt Untergruppe	. Detachable carriers or holders for impression-transfer material mechanism [1, 2006.01]
B41J 17/34	1-Punkt Untergruppe	. Backings for impression-transfer material, e.g. sheets for reducing friction, shields for preventing imprint [1, 2006.01]
B41J 17/36	1-Punkt Untergruppe	. Alarms, indicators, or feed-disabling devices responsive to material breakage or exhaustion [1, 2006.01]
B41J 17/38	1-Punkt Untergruppe	. for dealing with the impression-transfer material after use [1, 2006.01]
B41J 17/40	2-Punkt Untergruppe	.. for retracting sheets for re-use [1, 2006.01]
B41J 17/42	2-Punkt Untergruppe	.. for webs [1, 2006.01]
<b>B41J 19/00</b>	<b>Hauptgruppe</b>	<b>Character- or line-spacing mechanisms (key actions B41J 25/02) [1, 2006.01]</b>
B41J 19/02	1-Punkt Untergruppe	. with retarding devices, e.g. brakes [1, 2006.01]
B41J 19/04	1-Punkt Untergruppe	. Sound-deadening or shock-absorbing devices or measures therein (B41J 19/38 takes precedence) [1, 2006.01]
B41J 19/06	2-Punkt Untergruppe	.. Resilient mounting of mechanism [1, 2006.01]
B41J 19/08	2-Punkt Untergruppe	.. Buffers, springs, or like carriage stops [1, 2006.01]
B41J 19/10	2-Punkt Untergruppe	.. Dash-pots [1, 2006.01]
B41J 19/12	2-Punkt Untergruppe	.. Gearing made of special material or specially constructed to reduce sound or shock [1, 2006.01]
B41J 19/14	1-Punkt Untergruppe	. with means for effecting line or character spacing in either direction [1, 2006.01]
B41J 19/16	1-Punkt Untergruppe	. Special spacing mechanisms for circular, spiral, or diagonal-printing apparatus [1, 2006.01]
B41J 19/18	1-Punkt Untergruppe	. Character-spacing or back-spacing mechanisms; Carriage-return or release devices therefor [1, 2006.01]
B41J 19/20	2-Punkt Untergruppe	.. Positive-feed character-spacing mechanisms (controlled by escapements B41J 19/52) [1, 2006.01]
B41J 19/22	3-Punkt Untergruppe	... acting by friction or gripping effect [1, 2006.01]
B41J 19/24	3-Punkt Untergruppe	... Pawl and ratchet [1, 2006.01]
B41J 19/26	4-Punkt Untergruppe	.... moving a paper or like carriage [1, 2006.01]
B41J 19/28	4-Punkt Untergruppe	.... moving a paper or like web or strip, e.g. over a stationary support [1, 2006.01]
B41J 19/30	3-Punkt Untergruppe	... Electromagnetically-operated mechanisms [1, 2006.01]
B41J 19/32	3-Punkt Untergruppe	... Differential or variable-spacing arrangements [1, 2006.01]
B41J 19/34	2-Punkt Untergruppe	.. Escapement-feed character-spacing mechanisms [1, 2006.01]
B41J 19/36	3-Punkt Untergruppe	... Driving mechanisms, e.g. springs stressed during carriage return [1, 2006.01]
B41J 19/38	4-Punkt Untergruppe	.... adapted for silent return [1, 2006.01]

Symbol	Typ	Titel
B41J 19/40	3-Punkt Untergruppe	... Escapements having a single pawl or like detent [1, 2006.01]
B41J 19/42	3-Punkt Untergruppe	... Escapements having two pawls or like detents [1, 2006.01]
B41J 19/44	4-Punkt Untergruppe	.... coacting with two toothed members, e.g. racks or wheels [1, 2006.01]
B41J 19/46	4-Punkt Untergruppe	.... and mounted on a single rocker [1, 2006.01]
B41J 19/48	4-Punkt Untergruppe	.... and mounted on a single slider [1, 2006.01]
B41J 19/50	3-Punkt Untergruppe	... Electromagnetically-controlled escapements [1, 2006.01]
B41J 19/52	3-Punkt Untergruppe	... Escapements controlling positive-feed mechanism [1, 2006.01]
B41J 19/54	3-Punkt Untergruppe	... Construction of universal bars [1, 2006.01]
B41J 19/56	3-Punkt Untergruppe	... Escapements controlling web or strip feed [1, 2006.01]
B41J 19/58	3-Punkt Untergruppe	... Differential or variable-spacing arrangements [1, 2006.01]
B41J 19/60	2-Punkt Untergruppe	... Auxiliary feed or adjustment devices [1, 2006.01]
B41J 19/62	3-Punkt Untergruppe	... for back-spacing [1, 2006.01]
B41J 19/64	3-Punkt Untergruppe	... for justifying [1, 2006.01]
B41J 19/66	2-Punkt Untergruppe	... Carriage-release mechanisms [1, 2006.01]
B41J 19/68	2-Punkt Untergruppe	... Carriage-return mechanisms, e.g. manually actuated [1, 2006.01]
B41J 19/70	3-Punkt Untergruppe	... power driven [1, 2006.01]
B41J 19/72	4-Punkt Untergruppe	.... with power stored during character spacing [1, 2006.01]
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 [1, 2006.01]
B41J 19/76	1-Punkt Untergruppe	. Line-spacing mechanisms (special line-feeds, e.g. long feeds, B41J 11/36) [1, 2006.01]
B41J 19/78	2-Punkt Untergruppe	... Positive-feed mechanisms [1, 2006.01]
B41J 19/80	3-Punkt Untergruppe	... Pawl-and-ratchet mechanisms [1, 2006.01]
B41J 19/82	4-Punkt Untergruppe	.... moving a paper or like carriage [1, 2006.01]
B41J 19/84	5-Punkt Untergruppe	..... in the form of a roller rotated for line spacing [1, 2006.01]
B41J 19/86	6-Punkt Untergruppe	..... the pawl being normally in engagement with the ratchet [1, 2006.01]
B41J 19/88	4-Punkt Untergruppe	.... moving a type carriage [1, 2006.01]
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 [1, 2006.01]
B41J 19/92	3-Punkt Untergruppe	... Electromagnetically-operated mechanisms [1, 2006.01]
B41J 19/94	3-Punkt Untergruppe	... automatically operated in response to carriage return [1, 2006.01]
B41J 19/96	3-Punkt Untergruppe	... Variable-spacing arrangements [1, 2006.01]
B41J 19/98	2-Punkt Untergruppe	... Escapement-feed mechanisms [1, 2006.01]
<b>B41J 21/00</b>	<b>Hauptgruppe</b>	<b>Column, tabular, or like printing arrangements; Means for centralising short lines (carriage-release mechanisms B41J 19/66; key actions B41J 25/18) [1, 2006.01]</b>

Symbol	Typ	Titel
B41J 21/02	1-Punkt Untergruppe	. Stops or stop-racks [1, 2006.01]
B41J 21/04	1-Punkt Untergruppe	. Mechanisms for setting or restoring tabulation stops [1, 2006.01]
B41J 21/06	1-Punkt Untergruppe	. with means for preventing rebound from stops [1, 2006.01]
B41J 21/08	1-Punkt Untergruppe	. Mechanisms for initiating, effecting, skipping, or stopping tabulation movement; Means for centralising short lines [1, 2006.01]
B41J 21/10	1-Punkt Untergruppe	. with central, counter, or equivalent stop projected into path of tabulation stops [1, 2006.01]
B41J 21/12	1-Punkt Untergruppe	. characterised by arrangements of electrical contacts [1, 2006.01]
B41J 21/14	1-Punkt Untergruppe	. characterised by denominational arrangements [1, 2006.01]
B41J 21/16	1-Punkt Untergruppe	. controlled by the sensing of marks or formations on the paper being typed, an undersheet, or the platen [1, 2006.01]
B41J 21/17	1-Punkt Untergruppe	. controlled by stored information [5, 2006.01]
B41J 21/18	1-Punkt Untergruppe	. characterised by applications of scales or indicators [1, 2006.01]
<b>B41J 23/00</b>	<b>Hauptgruppe</b>	<b>Power drives for actions or mechanisms (B41J 9/00 take precedence) [1, 2006.01]</b>
B41J 23/02	1-Punkt Untergruppe	. Mechanical power drives [1, 2006.01]
B41J 23/04	2-Punkt Untergruppe	.. with driven mechanism arranged to be clutched to continuously-operating power source [1, 2006.01]
B41J 23/06	3-Punkt Untergruppe	... by snatch rolls [1, 2006.01]
B41J 23/08	3-Punkt Untergruppe	... by one-revolution or part-revolution clutches [1, 2006.01]
B41J 23/10	3-Punkt Untergruppe	... and arrested in selected position [1, 2006.01]
B41J 23/12	2-Punkt Untergruppe	.. Mechanism driven by cams engaging rotating roller [1, 2006.01]
B41J 23/14	2-Punkt Untergruppe	.. Mechanism driven through an oscillating or reciprocating member [1, 2006.01]
B41J 23/16	2-Punkt Untergruppe	.. Mechanism driven by a spring tensioned by power means [1, 2006.01]
B41J 23/18	2-Punkt Untergruppe	.. Continuously-cycling drives [1, 2006.01]
B41J 23/20	1-Punkt Untergruppe	. Fluid-pressure power drives [1, 2006.01]
B41J 23/22	2-Punkt Untergruppe	.. for key or like type selection [1, 2006.01]
B41J 23/24	2-Punkt Untergruppe	.. for impression mechanisms [1, 2006.01]
B41J 23/26	2-Punkt Untergruppe	.. for platen or carriage movements, e.g. for line spacing, letter spacing, or carriage return [1, 2006.01]
B41J 23/28	2-Punkt Untergruppe	.. for type-carriage movements [1, 2006.01]
B41J 23/30	2-Punkt Untergruppe	.. for case shift [1, 2006.01]
B41J 23/32	1-Punkt Untergruppe	. Electromagnetic power drives, e.g. applied to key levers [1, 2006.01]
B41J 23/34	2-Punkt Untergruppe	.. applied to elements other than key levers [1, 2006.01]
B41J 23/36	3-Punkt Untergruppe	... and acting on type members [1, 2006.01]
B41J 23/38	3-Punkt Untergruppe	... and acting on aligning or case-shift mechanisms [1, 2006.01]
<b>B41J 25/00</b>	<b>Hauptgruppe</b>	<b>Actions or mechanisms not otherwise provided for [1, 2006.01]</b>
B41J 25/02	1-Punkt Untergruppe	. Key actions for specified purposes [1, 2006.01]

Symbol	Typ	Titel
B41J 25/04	2-Punkt Untergruppe	... Back-spacing [1, 2006.01]
B41J 25/06	2-Punkt Untergruppe	... Carriage return [1, 2006.01]
B41J 25/08	2-Punkt Untergruppe	... Case shift [1, 2006.01]
B41J 25/10	2-Punkt Untergruppe	... Ink-ribbon adjustment [1, 2006.01]
B41J 25/12	2-Punkt Untergruppe	... Character spacing [1, 2006.01]
B41J 25/14	2-Punkt Untergruppe	... Line spacing [1, 2006.01]
B41J 25/16	2-Punkt Untergruppe	... Line spacing and carriage return by a single key [1, 2006.01]
B41J 25/18	2-Punkt Untergruppe	... Tabulating [1, 2006.01]
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 [1, 2006.01]
B41J 25/22	1-Punkt Untergruppe	. for aligning characters for impression (in machines using index setting B41J 5/02) [1, 2006.01]
B41J 25/24	1-Punkt Untergruppe	. Case-shift mechanisms (B41J 11/14 takes precedence; key actions B41J 25/08); Fount-change arrangements [1, 2006.01]
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, 2006.01]
B41J 25/308	2-Punkt Untergruppe	... with print gap adjustment mechanisms [5, 2006.01]
B41J 25/312	2-Punkt Untergruppe	... with print pressure adjustment mechanisms, e.g. pressure-on-the-paper mechanisms [5, 2006.01]
B41J 25/316	2-Punkt Untergruppe	... with tilting motion mechanisms relative to paper surface [5, 2006.01]
B41J 25/32	1-Punkt Untergruppe	. Impression mechanisms in which a roller co-operates with stationary type-faces [1, 2006.01]
B41J 25/34	1-Punkt Untergruppe	. Bodily-changeable print heads or carriages (B41J 1/20, B41J 1/22, B41J 1/60 take precedence) [5, 2006.01]
<b>B41J 27/00</b>	<b>Hauptgruppe</b>	<b>Inking apparatus [1, 2006.01]</b>
B41J 27/02	1-Punkt Untergruppe	. with ink applied by pads or rotary discs [1, 2006.01]
B41J 27/04	2-Punkt Untergruppe	... Pads or discs; Ink-supply arrangements therefor [1, 2006.01]
B41J 27/06	2-Punkt Untergruppe	... Arrangements to ensure maximum life of pads or discs [1, 2006.01]
B41J 27/08	2-Punkt Untergruppe	... Arrangements for multicolour work [1, 2006.01]
B41J 27/10	1-Punkt Untergruppe	. with ink applied by rollers; Ink-supply arrangements therefor [1, 2006.01]
B41J 27/12	2-Punkt Untergruppe	... Rollers [1, 2006.01]
B41J 27/14	2-Punkt Untergruppe	... Arrangements for multicolour work [1, 2006.01]
B41J 27/16	1-Punkt Untergruppe	. with ink deposited electrostatically or electromagnetically, e.g. powdered ink [1, 2006.01]
B41J 27/18	2-Punkt Untergruppe	... with liquid ink deposited [1, 2006.01]
B41J 27/20	1-Punkt Untergruppe	. with ink supplied by capillary action, e.g. through porous type-members, through porous platens [1, 2006.01]
B41J 27/22	1-Punkt Untergruppe	. with inking discs or sectors [1, 2006.01]
<b>B41J 29/00</b>	<b>Hauptgruppe</b>	<b>Details of, or accessories for, typewriters or selective printing mechanisms not otherwise provided for [1, 2006.01]</b>

Symbol	Typ	Titel
B41J 29/02	1-Punkt Untergruppe	. Framework [1, 2006.01]
B41J 29/04	1-Punkt Untergruppe	. Means for attaching machines to baseboards [1, 2006.01]
B41J 29/06	1-Punkt Untergruppe	. Special supports, platforms, or trolleys for supporting machines on tables [1, 2006.01]
B41J 29/08	1-Punkt Untergruppe	. Sound-deadening or shock-absorbing stands, supports, cases, or pads separate from machines [1, 2006.01]
B41J 29/10	1-Punkt Untergruppe	. Sound-deadening devices embodied in machines (B41J 19/04 takes precedence) [1, 2006.01]
B41J 29/12	1-Punkt Untergruppe	. Guards, shields or dust excluders [1, 5, 2006.01]
B41J 29/13	2-Punkt Untergruppe	.. Cases or covers [5, 2006.01]
B41J 29/14	1-Punkt Untergruppe	. Attachments operated by the leg, e.g. the foot or knee [1, 2006.01]
B41J 29/15	1-Punkt Untergruppe	. Script supports connected to the typewriter or printer (tables, desks, office furniture, in general A47B) [5, 2006.01]
B41J 29/16	1-Punkt Untergruppe	. Auxiliary receptacles for articles, e.g. erasers, pencils [1, 2006.01]
B41J 29/17	1-Punkt Untergruppe	. Cleaning arrangements [5, 2006.01]
B41J 29/18	1-Punkt Untergruppe	. Mechanisms for rendering the print visible to the operator (ink-ribbon shifts B41J 35/20) [1, 5, 2006.01]
B41J 29/19	2-Punkt Untergruppe	.. with reflectors or illuminating devices [5, 2006.01]
B41J 29/20	1-Punkt Untergruppe	. Arrangements of counting devices [1, 2006.01]
B41J 29/22	2-Punkt Untergruppe	.. Line counters [1, 2006.01]
B41J 29/24	2-Punkt Untergruppe	.. Word counters [1, 2006.01]
B41J 29/26	1-Punkt Untergruppe	. Devices, non-fluid media or methods for cancelling, correcting errors, underscoring or ruling [1, 4, 2006.01]
B41J 29/28	2-Punkt Untergruppe	.. Writing or like instruments in holders or guides [1, 2006.01]
B41J 29/30	2-Punkt Untergruppe	.. Wheels [1, 2006.01]
B41J 29/32	2-Punkt Untergruppe	.. Type-members [1, 2006.01]
B41J 29/34	3-Punkt Untergruppe	... repeatedly actuated [1, 2006.01]
B41J 29/36	2-Punkt Untergruppe	.. for cancelling or correcting errors by overprinting (B41J 31/00 takes precedence) [1, 4, 2006.01]
B41J 29/367	3-Punkt Untergruppe	... sheet media carrying a pigmented transferable correction layer [4, 2006.01]
B41J 29/373	3-Punkt Untergruppe	... sheet media bearing an adhesive layer effective to lift off wrongly typed characters [4, 2006.01]
B41J 29/377	1-Punkt Untergruppe	. Cooling or ventilating arrangements [5, 2006.01]
B41J 29/38	1-Punkt Untergruppe	. Drives, motors, controls, or automatic cut-off devices for the entire printing mechanism [1, 2006.01]
B41J 29/387	2-Punkt Untergruppe	.. Automatic cut-off devices [5, 2006.01]
B41J 29/393	2-Punkt Untergruppe	.. Devices for controlling or analysing the entire machine [5, 2006.01]
B41J 29/40	1-Punkt Untergruppe	. Means for printing fixed, i.e. unchanging, matter in addition to selectable matter [1, 2006.01]
B41J 29/42	1-Punkt Untergruppe	. Scales and indicators, e.g. for determining side margins [1, 2006.01]
B41J 29/44	2-Punkt Untergruppe	.. for determining top and bottom margins or indicating exhaust of paper [1, 2006.01]

Symbol	Typ	Titel
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) [1, 2006.01]
B41J 29/48	2-Punkt Untergruppe	... responsive to breakage or exhaustion of paper or approach of bottom of paper [1, 2006.01]
B41J 29/50	1-Punkt Untergruppe	. Side-stop mechanisms [1, 2006.01]
B41J 29/52	1-Punkt Untergruppe	. Top-and-bottom stop mechanisms [1, 2006.01]
B41J 29/54	1-Punkt Untergruppe	. Locking devices applied to printing mechanisms [1, 2006.01]
B41J 29/56	2-Punkt Untergruppe	... and manually actuated [1, 2006.01]
B41J 29/58	2-Punkt Untergruppe	... and automatically actuated [1, 2006.01]
B41J 29/60	3-Punkt Untergruppe	... in response to failure of power supply [1, 2006.01]
B41J 29/62	3-Punkt Untergruppe	... by the absence of paper to lock hammer mechanism [1, 2006.01]
B41J 29/64	3-Punkt Untergruppe	... by a function of the printer to lock the keyboard [1, 2006.01]
B41J 29/66	4-Punkt Untergruppe	.... Locking devices actuated when platen reaches the end of a line [1, 2006.01]
B41J 29/68	3-Punkt Untergruppe	... by completion of a page or predetermined number of lines or exhaustion of paper to lock the keyboard [1, 2006.01]
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 [1, 2006.01]

**Ink ribbons; Ink-ribbon mechanisms**

<b>B41J 31/00</b>	<b>Hauptgruppe</b>	<b>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 [1, 2006.01]</b>
B41J 31/02	1-Punkt Untergruppe	. Ink ribbons characterised by the material from which they are woven [1, 2006.01]
B41J 31/04	2-Punkt Untergruppe	.. woven from synthetic material [1, 2006.01]
B41J 31/05	1-Punkt Untergruppe	. Ink ribbons having coatings other than impression-material coatings [1, 2006.01]
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 [1, 2006.01]
B41J 31/08	2-Punkt Untergruppe	.. the coatings being superimposed on impression-transfer material [1, 2006.01]
B41J 31/09	1-Punkt Untergruppe	. Ink ribbons characterised by areas carrying media for obliteration or removal of typing errors [4, 2006.01]
B41J 31/10	1-Punkt Untergruppe	. Ink ribbons having arrangements to facilitate threading through a machine [1, 2006.01]
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 [1, 2006.01]
B41J 31/14	1-Punkt Untergruppe	. Renovating or testing ink ribbons [1, 2006.01]
B41J 31/16	2-Punkt Untergruppe	.. while fitted in the machine using the ink ribbons [1, 2006.01]
<b>B41J 32/00</b>	<b>Hauptgruppe</b>	<b>Ink-ribbon cartridges [3, 2006.01]</b>
B41J 32/02	1-Punkt Untergruppe	. for endless ribbons [3, 2006.01]
<b>B41J 33/00</b>	<b>Hauptgruppe</b>	<b>Apparatus or arrangements for feeding ink ribbons or like character-size impression-transfer material (ink-ribbon cartridges B41J 32/00) [1, 2006.01]</b>
B41J 33/02	1-Punkt Untergruppe	. Ribbon arrangements [1, 2006.01]
B41J 33/04	2-Punkt Untergruppe	.. mounted on moving carriages [1, 2006.01]

Symbol	Typ	Titel
B41J 33/06	2-Punkt Untergruppe	... Ribbons associated, but not moving, with typewriter platens, e.g. extending transversely to the length of the platen [1, 2006.01]
B41J 33/08	3-Punkt Untergruppe	... and extending parallel to the length of the platen [1, 2006.01]
B41J 33/10	2-Punkt Untergruppe	... Arrangements of endless ribbons [1, 2006.01]
B41J 33/12	2-Punkt Untergruppe	... Ribbons carried by coaxially-mounted spools [1, 2006.01]
B41J 33/14	1-Punkt Untergruppe	. Ribbon-feed devices or mechanisms [1, 2006.01]
B41J 33/16	2-Punkt Untergruppe	... with drive applied to spool or spool spindle [1, 2006.01]
B41J 33/18	3-Punkt Untergruppe	... by ratchet mechanism (B41J 33/30 takes precedence) [1, 2006.01]
B41J 33/20	3-Punkt Untergruppe	... by friction [1, 2006.01]
B41J 33/22	3-Punkt Untergruppe	... by gears or pulleys [1, 2006.01]
B41J 33/24	2-Punkt Untergruppe	... with drive applied directly to ribbon [1, 2006.01]
B41J 33/26	3-Punkt Untergruppe	... by rollers engaging the ribbon [1, 2006.01]
B41J 33/28	3-Punkt Untergruppe	... by mechanism pulling or gripping the ribbon [1, 2006.01]
B41J 33/30	2-Punkt Untergruppe	... Escapement mechanisms [1, 2006.01]
B41J 33/32	2-Punkt Untergruppe	... Electromagnetic devices [1, 2006.01]
B41J 33/34	2-Punkt Untergruppe	... driven by motors independently of the machine as a whole [1, 2006.01]
B41J 33/36	2-Punkt Untergruppe	... with means for adjusting feeding rate [1, 2006.01]
B41J 33/38	2-Punkt Untergruppe	... Slow, e.g. "creep", feed mechanisms [1, 2006.01]
B41J 33/382	3-Punkt Untergruppe	... the ribbon being fed only during carriage return [1, 2006.01]
B41J 33/384	4-Punkt Untergruppe	.... and attached to the carriage during writing [1, 2006.01]
B41J 33/386	3-Punkt Untergruppe	... the ribbon being fed only by operation of the line-spacing mechanism [1, 2006.01]
B41J 33/388	3-Punkt Untergruppe	... the ribbon being fed only when type impression takes place [1, 2006.01]
B41J 33/40	2-Punkt Untergruppe	... with arrangements for reversing the feed direction [1, 2006.01]
B41J 33/42	3-Punkt Untergruppe	... manually [1, 2006.01]
B41J 33/44	3-Punkt Untergruppe	... automatically [1, 2006.01]
B41J 33/46	4-Punkt Untergruppe	.... and characterised by its application to mechanism in which two spools are driven by pawl-and-ratchet mechanism [1, 2006.01]
B41J 33/48	5-Punkt Untergruppe	..... comprising two pawls and ratchets, one for each spool [1, 2006.01]
B41J 33/50	5-Punkt Untergruppe	..... comprising a single pawl or integral double-tooth pawl selectively engageable with two ratchets, one for each spool [1, 2006.01]
B41J 33/51	4-Punkt Untergruppe	.... and characterised by the use of particular reversing control means [1, 2006.01]
B41J 33/512	5-Punkt Untergruppe	.... using a pivoted reversing-feeler engaging the external periphery of the wound ribbon [1, 2006.01]
B41J 33/514	5-Punkt Untergruppe	.... using a pivoted reversing-feeler engaging the interior of the wound ribbon [1, 2006.01]

Symbol	Typ	Titel
B41J 33/516	5-Punkt Untergruppe	..... using a reversing-feeler responsive to the tension of the ribbon [1, 2006.01]
B41J 33/518	5-Punkt Untergruppe	..... the reversing-feeler engaging buttons or the like secured to the ribbon near its ends [1, 2006.01]
B41J 33/52	2-Punkt Untergruppe	... Braking devices therefor [1, 2006.01]
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) [1, 2006.01]
B41J 33/56	3-Punkt Untergruppe	... Ribbon adjusted transversely [1, 2006.01]
B41J 33/58	3-Punkt Untergruppe	... Ribbon fed angularly [1, 2006.01]
B41J 33/60	2-Punkt Untergruppe	... responsive to telegraph code or other extraneous signals [1, 2006.01]
<b>B41J 35/00</b>	<b>Hauptgruppe</b>	<b>Other apparatus or arrangements associated with, or incorporated in, ink-ribbon mechanisms [1, 2006.01]</b>
B41J 35/02	1-Punkt Untergruppe	. Frames or holders for unwound short lengths of ink ribbons [1, 2006.01]
B41J 35/03	2-Punkt Untergruppe	.. the holder being movable to inoperative position, e.g. by swinging upwardly [1, 2006.01]
B41J 35/04	1-Punkt Untergruppe	. Ink-ribbon guides [1, 2006.01]
B41J 35/06	2-Punkt Untergruppe	.. stationary [1, 2006.01]
B41J 35/08	2-Punkt Untergruppe	.. with tensioning arrangements [1, 2006.01]
B41J 35/10	2-Punkt Untergruppe	.. Vibrator mechanisms; Driving gear therefor [1, 2006.01]
B41J 35/12	3-Punkt Untergruppe	... adjustable, e.g. for case shift (key actions B41J 25/02) [1, 2006.01]
B41J 35/14	4-Punkt Untergruppe	.... for multicolour work; for ensuring maximum life of ink ribbon; for rendering ink ribbon inoperative [1, 2006.01]
B41J 35/16	1-Punkt Untergruppe	. Multicolour arrangements (B41J 35/10 takes precedence) [1, 2006.01]
B41J 35/18	2-Punkt Untergruppe	.. Colour change effected automatically [1, 2006.01]
B41J 35/20	1-Punkt Untergruppe	. Ink-ribbon shifts, e.g. for exposing print, for case-shift adjustment, for rendering ink ribbon inoperative [1, 2006.01]
B41J 35/22	1-Punkt Untergruppe	. Mechanisms permitting the selective use of a plurality of ink ribbons [1, 2006.01]
B41J 35/23	2-Punkt Untergruppe	.. with two or more ribbon guides [1, 2006.01]
B41J 35/24	1-Punkt Untergruppe	. Mechanisms specially adapted for feeding impression-transfer materials of foil form [1, 2006.01]
B41J 35/26	1-Punkt Untergruppe	. Ink-ribbon shields or backings [1, 2006.01]
B41J 35/28	1-Punkt Untergruppe	. Detachable carriers or holders for ink-ribbon mechanisms [1, 2006.01]
B41J 35/30	1-Punkt Untergruppe	. Manifolding or like arrangements [1, 2006.01]
B41J 35/32	2-Punkt Untergruppe	.. for producing a plurality of copies along the printing line by a single ink ribbon [1, 2006.01]
B41J 35/34	2-Punkt Untergruppe	.. using a plurality of separate ink ribbons, e.g. including one hectographic ink ribbon [1, 2006.01]
B41J 35/35	2-Punkt Untergruppe	.. using unwound short lengths of ink ribbons [1, 2006.01]
B41J 35/36	1-Punkt Untergruppe	. Alarms, indicators, or feed-disabling devices responsive to ink-ribbon breakage or exhaustion [1, 2006.01]
B41J 35/38	1-Punkt Untergruppe	. Feeding the ink ribbon to waste after use [1, 2006.01]