

Search query (5): FT=(HANKY~ OR NAPKIN~ OR WIPE~ OR TOWEL~ OR CLOTH~ OR WET~ OR WIPES~ AND PACKAGE~ OR BOX~ OR BAG~ OR CONTAINER~ OR OPENABLE~ OR SEALABLE~ OR RESEALABLE~ OR STAMP~ OR CLOSURE~ OR TAG~ OR LABEL~ OR TAB~ AND DISPENSING~ OR STORAGE~ AND COVER~)

Results: 252447

Search history

Search FT=(CUT+~ AND CHOP~ AND DRAIN~ AND SEVER~ AND ACID~ AND FILTER~ AND SEPARATION~ AND BATTERY~ AND RECOVER~ AND LEAD~
1: AND MACHINE~ AND SAW~ AND PUMP~ AND METHOD~ AND TUNGSTEN~ AND CARBIDE~ AND RECYCLING~) (Results 0)

Search FT=(CUT~ AND CHOP~ AND DRAIN~ AND SEVER~ AND ACID~ AND FILTER~ AND SEPARATION~ AND BATTERY~ AND RECOVER~ AND LEAD~
2: AND MACHINE~ AND SAW~ AND PUMP~ AND METHOD~ AND TUNGSTEN~ AND CARBIDE~ AND RECYCLING~) (Results 8)

Search FT=(CUT~ OR CHOP~ OR DRAIN~ OR SEVER~ AND ACID~ AND FILTER~ AND SEPARATION~ AND BATTERY~ OR RECOVER~ AND LEAD~ AND
3: MACHINE~ AND SAW~ AND PUMP~ AND METHOD~ AND TUNGSTEN~ AND CARBIDE~ OR RECYCLING~) (Results 158)

Search FT=(HANKY~ AND NAPKIN~ AND WIPE~ AND TOWEL~ AND CLOTH~ AND WET~ AND WIPES~ AND PACKAGE~ AND BOX~ AND BAG~ AND
4: CONTAINER~ AND OPENABLE~ AND SEALABLE~ AND RESEALABLE~ AND STAMP~ AND CLOSURE~ AND TAG~ AND LABEL~ AND TAB~ AND
DISPENSING~ AND STORAGE~ AND COVER~) (Results 0)

Search FT=(HANKY~ OR NAPKIN~ OR WIPE~ OR TOWEL~ OR CLOTH~ OR WET~ OR WIPES~ AND PACKAGE~ OR BOX~ OR BAG~ OR CONTAINER~
5: OR OPENABLE~ OR SEALABLE~ OR RESEALABLE~ OR STAMP~ OR CLOSURE~ OR TAG~ OR LABEL~ OR TAB~ AND DISPENSING~ OR STORAGE~
AND COVER~) (Results 252447)

Title: Means for recording and modifying intelligence

Priority: GB19520023535 19520919 GB19530007831 19530320 GB19540009329 19540330
FR19580768329 19580619 GB19530030095 19531030 GB19530007832 19530320
GB19530007833 19530320 19540325 NL19750014099 19751203

Family:	Publication number	Publication date	Application number	Application date
	AU165822 A1	00000000		00000000
	AU165822 B	00000000		00000000
	AU165822 B2	00000000		00000000
	AU165980 A1	00000000		00000000
	AU165980 B	00000000		00000000
	AU165980 B2	00000000		00000000
	AU166414 A1	00000000		00000000
	AU166414 B	00000000		00000000
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NL96174 C	00000000		00000000
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US2927305 A	19600301		00000000
US2932009 A	19600405	US19540417106	19540318
US3001021 A	19610919	US19540417193	19540318
US3025351 A	19620313	US19540417107	19540318
US3039683 A	19620619	US19580740435	19580606
US3130300 A	19640421	US19540417071	19540318

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Assignee(s): STANDARD TELEPHONES AND CABLES LIMITED ; INTERNATIONAL STANDARD ELECTRIC CORPORATION ; STANDARD ELECTRICA S A ; FA TRIOLIET SILO EUROPE B V ; STANDARD TELEPHON UND RADIO AG ; STANDARD TELEPHON U RADIO AG ; TRIOLIET MULLOS SILO NEDERLAND B V TE LOSSER ; TRIOLIET SILO EUROPE B V LOSSER NL ; TRIOLIET SILO EUROPE LOSSER NIEDERLANDE BV FA ; TRIOLIET SILO EUROPE LOSSER NIEDERLANDE BV

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International class (IPC 8-9): A01F25/20 H01J3/02 H01L23/10 H01L23/14 H01L23/48 H01L29/00 H01L29/72 H04B11/00 (Advanced/Invention); A01F25/16 H01J3/00 H01L23/02 H01L23/12 H01L23/48 H01L29/00 H01L29/66 H04B11/00 (Core/Invention)

International class (IPC 1-7): A01F25/18 A01F25/20 B65G65/38

European class: 42M37G2 42M37G2D 42M37G2D1F2 42M37G2D2 42M37P2 A01F25/20B G06F12/14 G06F13/00 G06F13/16D8 G06F13/22 G06F15/04 G06F7/495 G06F7/50B G06K17/00 G11B20/14A1D G11B20/14A2 G11B20/16 G11C11/22 H01J3/02G H01L23/10 H01L23/14 H01L23/48 H01L29/00 H01L29/72 H03K21/00 H03M7/00 H03M7/08 H04B11/00 H04L12/54 H04L13/08 H04L25/24A1 H04M15/04 H04M15/10 H04M15/38 H04Q3/42

US class: 139/15 139/1A 235/137 235/61R 257/41 340/309.16 340/309.8 340/5.6 341/104 341/67 341/86 341/91 360/24 360/39 360/6 360/63 360/79 377/26 377/28 377/49 379/111 379/124 379/126 379/133 379/135 438/101 708/672 708/674 708/705 711/101 711/111 711/117 711/159 711/167 711/E12.091 713/401 713/600 G9B/20.039 G9B/20.04 G9B/20.045

[Classification Explorer](#)

Cited documents: US890869, US2947479, US2928601, US2901166, US2899500, US2898042, US2890831, US2886241, US2855146, US2851534, US2850720, US2850571, US2838745, US2823855, US2805286, US2790599, US2764634, US2749037, US2738382, US2734186, US2723311, US2721990, US2717341, US2716159, US2709041, US2701095, US2700755, US2700148, US2696575, US2680239, US2679551, US2676245, US2675427, US2674733, US2673311, US2671607, US2668875, US2666873, US2664528, US2661448, US2652554, US2629827, US2629016, US2614169, US2611813, US2609439, US2609143, US2588375, US2585630, US2577075, US2564403, US2549071, US2540654, US2517808, US2513112, US2512676, US2492136, US2467566, US2401888, US2297365, US2165925, US2165924, US1883907, GB703593, GB684079, FR997062, DE888268, DE881677, DE855873, DE852702, DE662417, DE643503, DE2317324, CH236322, CH181408,

Forward Citations: US3237176, US3190962, US3427594, US3317675, US3201780, US3025351, US4677541, US3171895, DE1287108, DE1260532, DE1234056, DE1122589, US3205309, US2958850, DE1216382, US3673333, US4202040, US3275804, US3441909, US3433898, US3173994, US3828135, US3108261, US3028583, US3164677, US3024315, US3357003, US2979569, US3072893, US5014267, US4710917, US3009019, GB2117603, US3048831, US3064889, FR2312160, US3130300, US3223785, US4032979, US3379068, US3107271, DE1213008, US3202975, US3651269, JP51013007, DE1549004, US3235855, US2984703, US3248718, US3414894, US3007145, DE1275088, US4716585, US4011559, US3199094, US3219802, US2927313, US3311893, US2933248, DE1081064, US3342939, US3843953, US3244811, US3160710, US3067290,

Abstract:
Source: GB744352A 744,352. Digital electric calculating apparatus. STANDARD TELEPHONES and CABLES, Ltd. May 21, 1952

Title: TRANSMITTING AND RECEIVING SYSTEM

Priority: US19290378208 19290715 US19300445746 19300419 US19300462114 19300618
 US19300497642 19301124 US19300484958 19300929 US19310525476 19310326
 US19310555780 19310807 US19390254120 19390201 US19310545888 19310622

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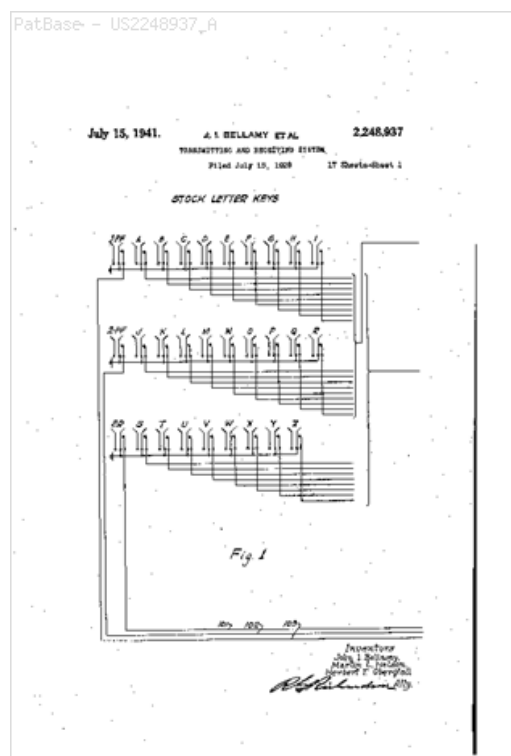
Probable Assignee: ASSOCIATED ELECTRIC LAB INC**Assignee(s):(std):** ASS TELEPHONE AND TELEGRAPH CO ; ASSOCIATED ELECTRIC LAB INC**Assignee(s):** ASSOCIATED ELECTRIC LABORATORIES INC ; ASSOCIATED TELEPHONE AND TELEGRAPH CO ; ASSOCIATED TELEPHONE AND TELEGRAPH COMPANY**Inventor(s):(std):** ROBINSON HAROLD C ; OBERGFELL HERBERT F ; NELSON MARTIN L ; BELLAMY JOHN I**International class (IPC 8-9):** E01C19/34 H04L12/18 H04L25/04 (Advanced/Invention); H04L12/18 (Core/Invention)**International class (IPC 1-7):** G08B11/00 G09F13/00 H04Q1/38**CPC:** H04L12/1804 E01C19/34**European class:** E01C19/34 H04L12/18B**US class:** 178/2.00R 178/2R 246/5 335/60 340/4.5 340/4.51 340/815.6 340/825.26 340/825.27 340/825.56 340/825.59 340/825.66 341/173 341/174 341/187 341/22 341/30[Classification Explorer](#)

Forward Citations: US9674560, US9294205, US9210370, US9038124, US8973034, US8914825, US8893177, US8869229, US8869228, US8839293, US8804727, US8752088, US8739241, US8713624, US8683539, US8675775, US8646001, US8640184, US8635644, US8621547, US8613034, US8607296, US8601528, US8587720, US8584162, US8572671, US8566868, US8559635, US8558950, US8395707, US8191091, US8112782, US8060903, US8046791, US7992169, US7966640, US7958527, US7940931, US7926084, US7908638, US7889865, US7870581, US7865920, US7864956, US7864248, US7861263, US7860131, US7856650, US7856649, US7849493, US7849479, US7844995, US7836480, US7831204, US7830925, US7827587, US7827586, US7823175, US7818777, US7818776, US7818761, US7817208, US7814526, US7810115, US7805749, US7805748, US7805738, US7801304, US7797717, US7793332, US7784082, US7783252, US7774809, US7769344, US7769170, US7764685, US7761890, US7752649, US7734251, US7386281, US3175188, US2968792, US2900621, US2870429, US2801406, US2772399, US2748382, US2727222, US2716155, US2714626, US2695991, US2686838, US2682044, US2673975, US2672519, US2666913, US2658942, US2640188, US2609439, US2603702, US2602116, US2601239, US2564403, US2558888, US2547034, US2514036, US2510061, US2504621, US2470145, US2467400, US2456226, US2453871, US2451859, US2450516, US2444067, US2438964, US2438492, US2425307, EP1296263,

Abstract:

Source: GB358889A [Class 4 (i).] Relates to an electric signalling system for transmitting information regarding the selling price of various stocks so that such prices may be indicated at a plurality of receiving points. Figs. 1 to 8 show the transmitting equipment corresponding to a single operator, further transmitters T2, T3, T4 together with a plurality of receivers and repeaters being shown in Fig. 9. Figs. 10, 11, and 12 show one arrangement of receiving equipment. General operation. The stocks, which are listed by means of one, two or three letters, are transmitted to the receivers, located in the brokers' offices, under the control of the appropriate keys A .. Z, Fig. 1. Transmission of the stocks is dealt with by two operators, those stocks represented by letters A .. K say, whether used alone or as the first letter of a combination being assigned to one operator and the stocks corresponding to letters L .. Z being dealt with similarly by a second set of keys under the control of the second operator. When the keys corresponding to a particular stock are operated, the stock letters are registered on the registers SR1, SR2, SR3, Fig. 2, which operates translators ST1, ST2, ST3, Fig. 3, and through an intermediate distributing frame IDF and registers SH, ST, SU effects the translation of the stock letters into a three digit code. The price of the stocks is transmitted by digit keys DK, Fig. 5, the digits being registered on registers PH, PT, PU, PF, Fig. 7, the latter register dealing with fractional prices. Moreover "range" indications, i.e. yesterday's closing price, highest and lowest prices, last price, c. are effected by keys RK and registered on register R, Fig. 6. The equipment RS2, Fig. 6, constitutes a duplicate of the registering apparatus, Figs. 4, 6 and 7, and the arrangement is such that the register sets are used alternately in order that a second registration may be effected while the first is held and is being transmitted. Fig. 8 shows the impulse sending equipment, the impulse generating equipment being successively associated with the register sets by relays 809 .. 824. Each digit transmitted to the receivers over the line wire 827 constitutes four impulses of alternate polarity, the strength of the impulses depending upon the setting of the registers. At the remote end of the line the impulses operate polarized and marginal relays 902, 903, 904, Fig. 9, of a repeater R1 from which the impulses are repeated to the several receiving stations. Detailed operation ; stock registration. The digit letters representing the stock are successively stored by corresponding relays in the registers SRI, SR2, SR3 upon the successive operation of the appropriate keys, transfer from register to register being effected by relays 201, 203. Price and "range" registration. The various price digits are recorded in registers PH, PT, PU, PF, Fig. 7, upon operation of the appropriate keys DK, Fig. 5, the relays of the

registers being energized singly or in pairs according to the value of the digit. Similarly the " range " of the price as determined by a key in the group RK is recorded in the register R, Fig. 6. Translation of stock letter code. Upon operation of the transfer relay 701 of the register of the first price digit a circuit is closed according to the number of letters registered, for a relay in one of the groups ST1, ST2, ST3 to effect translation of code. In the event of the registration of three letters, the circuit is closed over contacts of operated relays in registers SR3, SR2 for a relay in the group ST3 which closes contacts of a plurality of groups of leads, one group of which is selected by the operated relay in the register SR1 to mark three contacts on the frame IDF appropriate to the stock and which are connected to digit contacts in the numeral groups CD1, CD2, CD3 so as to operate corresponding relays in the numerical registers SH, ST, SU. Upon operation of the next transfer relay 703, the holding circuit of the operated relays in group ST3 and registers Fig. 2, is released ready for the reception of a further coded stock. Cancellation in the event of incorrect registration. If an error in setting up a stock occurs, the registration may be cancelled by operation of a key ER, Fig. 1, which operates relay 613, Fig. 6, to **open** the holding circuits in the operated register relays. Transfer to register set RS2 and connection of registers to sender, Fig. 8. When transfer relay 610 of the price range register is operated, relay 615 is energized to render the register equipment which is identical with that shown in Figs. 4, 6 and 7 effective for further stock and price registrations while the first registration remains held on the equipment shown in detail and rendered unresponsive to further signals by the switching relays such as 702, 704, c., Fig. 7, relays 403, 404, 405, Fig. 4. Relay 610 also operates relay 612 which energizes relays 710, 711, 825, 826 for switching the stock and price register marking leads through to the transmitter, Fig. 8. Operation of transmitter, Fig. 8. Operation of relay 612 also earths lead 617 to initiate operation of the sender. Relay 804 is operated over interrupter contacts 803 to energize relay 805 which in turn switches relay 806 into the interrupter circuit. Relay 806 responds to each interruption and effects the transmission of alternate positive and negative impulses over the line 827. Normally weak impulses determined by resistances 801, 802 are transmitted, but according to the marking of the leads A .. D by the stock price and range registers certain impulses may be strengthened. Thus each recorded digit is transmitted as a four-impulse code. The first impulse is negative and is weak or strong according to whether or not the lead A is marked by the A relay of the price register PH. Similarly the nature of the second impulse, which is positive, is determined by the marking of the lead B which is associated with the B relay of the register. Relays 808, 807 are then operated to connect in. circuit the leads C, D and the third and fourth impulses are transmitted in a similar manner the nature of these impulses being determined by relays C, D of register PH. Relays 808, 807 effect operation of transfer relays 809, 810 to connect the leads A .. D to the next set of register relays PT when the cycle of operations of relays 808, 807 is repeated to transmit four impulses characteristic of the setting of register PT. In like manner groups of impulses characteristic of the setting of registers PU, PF, SH, ST, SU and R are then transmitted, transfer of the impulsing equipment to the various registers being effected by relays 809 .. 824. Upon operation of relay 824 impulsing is terminated and the locking circuit of the operated register, switching and transfer relays is **opened** to cause release. The locking magnet LM for the range keys RK, which prevents setting up of a second complete registration in RS2 before the first quotation is transmitted, is also released. When the range register in RS2 is operated, a circuit is closed for relay 614 through contacts of relay corresponding to relay 610 and relay 614 is operated and relay 615 is released to again bring into circuit the original register equipment in preparation for the next signal. Repeating apparatus, Fig. 9. As previously described the stock quotations are dealt with by two operators, the first operator being provided with transmitter T<1> shown in detail in Figs. 1 to 8 and a spare transmitter T<2> which can be brought into use in the event of faulty operation of transmitter T<1> by key 901. Similarly the second operator who deals with stocks the initial letters of which are L .. Z has two transmitters T<3>, T<4>. The pairs of transmitters are associated with repeaters R<1>, R<2> respectively, each comprising a sensitive negatively polarized relay 902, sensitive non-polarized relay 903 and a marginal relay M connected in series with the line. The repeaters R1, R2 operate pairs of receivers RE1, RE2 (shown in detail); RE3, RE4, c., arranged in series and in pairs, each receiver of a pair being associated with one operator. If the indications are to be repeated at a distance further repeaters R3, R4 may be interposed between repeaters R1, R2 and the receivers. The relays 902, 903, 904 respond to the impulses in such a manner that an identical series of impulses is repeated. Receiving apparatus, Figs. 10, 11 and 12. The repeated impulses operate relays 1001, 1002, 1003 of the receiver so as to record the price digits on registers PH, PT, PH, PF. The relays 1001, 1002, 1003 are respectively, negatively and positively polarized and marginal and they respond to the impulses of each digit in such a manner that the digits are successively recorded by operation of relays A .. D, singly, or in pairs, of the registers. Associated with each register is a master switch MS1, MS2, c. which is set in accordance with the recorded digit. Upon operation of the transfer relay 1012 after registration of the first digit the operation of the master switch MS1 is initiated over contacts of register relays A .. D and the switch is driven into a position characteristic of the digit recorded on the register. The switch is driven by the spring 1050 until the locking magnet 1027 fails to find a circuit over wipers 1021, 1022 and contacts of register relays. The master switches MS2, MS3, MS4 are set in a similar manner into positions characteristic of digits recorded on registers PT, PU, PF. The stock and " range " digits are recorded in a similar manner upon registers SH, ST, SU, R, Fig. 11, the relays of the stock registers however controlling pyramidally arranged contacts directly associated with the indicating a



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Assignee(s):(std): HARVEY LEO M

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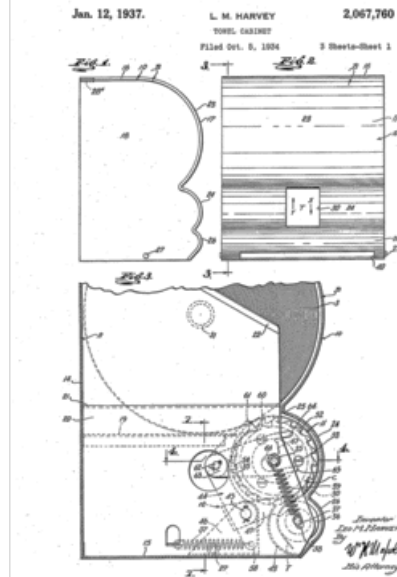
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Abstract:

Source: US2067760A ~ Having described my invention, I claim: 1. A **towel** cabinet including, a case for **containing** a supply of **towel**, said case having an **opening** through which a, portion of the **towel** ooniined within the case against USB 15 Engageable by the operator, means limiting the extent of **towel** passing from the case and adapted to be actuated so that **towel** may pass from the case, and a member in the case at said connned portion of the **towel** and movable by engagement by the operator of said connned portion of **towel** to actuate said means. 2. A **towel** cabinet including, a case for **containing** a supply of **towel**, said case having a part with an **opening**. releasable means in the case limiting the extent of **towel** passing from the case, and a member in the case opposite the **opening** and movable by the operator engaging and acting through the **opening** on **towel** trained past the member between it and said part of the case to release said means. ~ 3. A **towel** cabinet including, a case for **containing** s. supply of **towel** and having a **towel** delivering **opening**, a member in the case having movement controlling engagement with a portion of the **towel** in the case remote from said **opening**, the case being formed so that a limited part of said member engaging portion of the **towel** is exposed, and means holding the member against movement and releasable by manual engagement and movement of the exposed portion of **towel** in engagement with said member. 4. A **towel** dispenser including, a. supply of **towel**, a case for **containing** the supply of **towel**, a member housed partially by the case and partially by a portion of the **towel**, the member being engaged by said portion of the **towel**, and means for holding the member against movement and releasable by manipulation of the member through engagement by the operator of the portion of the **towel** housing the member. 5. A **towel** cabinet including, a. case for housing a supply roll of **towel** and having an **opening**, and means Within the case governing the passage of **towel** from the case including, a rotatable member adjacent the **opening**, engaged by a portion of the **towel** and having peripheral supporting engagement with the roll, and releasable means holding themember against rotation and releasable by pressure applied through the **opening** against the portion of the **towel** engaging said member. 6. A **towel** cabinet including, a case for housing a supply roll of **towel** and having an **opening** in its front wall, and means wholly within the case- governing the withdrawal of **towel** from the case including a rotatable control member in the case havingsupporting and feeding engagement with the periphery of the roll and located opposite and immediately behind the **opening** to substantially close the **opening** so that the operator can engage the means at the **opening** to actuate it. 7. A device of the character described including, a case for a supply of sheet material, the case having an **opening**, and means governing the withdrawal of material from the case including, a movable member in the case located so that material from the supply passes it with a portion in contact with it whereby movement of the material is dependent upon movement of the member, the part of said member contacted by said portion of the material being located adjacent the **opening** in the case, and means limits ing movement of the member and releasable by pressing' on the ,said portion of the material through the **opening** in the case to move the meinber. _ 8. A **towel** cabinet including two sections normally forming a case having sides, one section , A ' _ 2,oe7,vao / I 7 forming the beck and bottom of thewcase, the othexf section pivoted to the irst mentionedsection andjorming the front and top of the case. there being an **opening** in the front, supports on the Hrst section, and a control mechanism carried by the supports and including a. rotatable member supporting theSupply ot **towel** and located at the **opening** and adapted for manipulation through pressure on said member exerted 'Sh1 ' 01lgh the **opening** and on 'e portion of the ooweling passed between it and the **opening**. I 9. A **towel** dispensing device including a case, a supply of sheet **towel** in- the case, the **towel** having spaced **openings**, the case havlnaan **opening** for egress of 'she **towel** to free it for use, nieans for controlling the amount of **towel** passing from the egress **opening**, the same means including an part adapted to penetrate the **openings** in the **towel**. 5' 10. A device for **dispensing** sheet **towel** having **openings**, including e, case for holding a supply of the **towel** and having an **opening** through which the **towel** passes from the case E30 be removed, means, for limiting the amount of **towel** passing from the case, sold means including e part adapted to enter one of said openingsjn the **towel**. _ 11. A device for **dispensing** sheet **towel** having openims, including a case for holding a Supply oi the **towel** and hswing an exit for liberating the **towel** from the case. a manually releasable control for limiting the amount of **towel** liberated from the case, the control including a port, adapted to enter one of the **openings** In the **towel** Izorender the control operative to stop liberation of **towel** from the case. 32, A device for **dispensing** sheet **towel** having **openings**, including a case for holding e supply of the **towel** and having an exit to permit the Wltmdrnwal of **towel** from the case, restraining means operable to limit the extent of ioweling withdrawn from the case. and ,a part adopted to ensser one of said **openings** In the **towel** and operate the restraining means to prevent withdrawal of **towel** from the case. 13. A device for **dispensing** sheet; material havim **openings** including, 2. case for holding a suppkv of the material, and a control governing the mlzhnlrawn of the material from the case including, a member associated with the material to be manually movable through the medium of the material and bo govern the movement of the materiel, mean; for holding the member against movement releasable by manual movement of the member, and means for rendering said means operative including a paw adapted to enter an **opening** In 'hhe'materia.l.- M. A device for **dispensing** sheet material lriaving **openings** éncldum, sz, case for holding n supply of lzhe matenm, and e. control governing the wltladrawal of one material from the coseIncludng, n membei movable through manual engagement of the material through an **opening** in the cose and operable to prevent; outward movement of the material; a. part-adapted to enter an **opening** in the material, and means for preventing movement ofthe member controlled by said parm I5, A device for -**dispensing** sheet material Including, a case for holding a supply of the mateolal and having an **opening** through which the niatelal is to be **dispensed** therefrom, the case having B second **opening** at a. point Temote from that at which tl1e'materln.l is **dispensed**. and a control wholly within the case governing the amount of ,materiel _removed from the case including a rotatable member in the case immediately behind ' the second **opening** and having movement(cngntrolling engagement with a; portion of the material, said member supporting the material behind the said second **opening** and being positioned to be turned by manual engagement of the material accessible through the said 'second **opening**. , w .' 16. A device for **dispensing** sheet material including, a case having anopening and adapted to ,hold n supply of the material, and a..means governing the amount of material removed from the case including, a rotatable member in the case having movement controlling engagement with the material and positioned to be turned by manual engagement through said **opening** of material accessible therethrough, and means preventing turning of the member 'in feeding direction for the material, said means being releasable only by 'turning of the member a substantial. distance in the reverse direction, said means including a stop member normally positively stopping the rotatable member against rotation in feeding di-' rection and s. releasing member for releasing the stop member and cooperatively engaging the rotatable member and operable by reverse rotation of the rotiztable membev. 17. A device f0l!"d.ISP_DSIIIf1g sheet material including, a case having an **opening** and adapted to hold a supply of the material. and o control gove-ning' the removal of the material from the case including, HL rotateble member in the case having `movement

controlling engagement with the material end positioned to be turned by manual engagement -of material' accessible through said **opening**, means governed through cooperation with the material for preventing turning of the member in the direction required for removal of the material, and means operable by turning of the member in the reverse direction to release said means. 18. A device for **dispensing** sheet material including a case having an **opening** and adapted to hold a supply of the material, and a control governing the removal of the material from the case including a movable member in the case having movement controlling engagement with the material and positioned to be moved by manual engagement of material accessible through said **opening**, means for preventing movement of the member in the direction required for removal of the material, means for releasing said means operable by movement of the member in the opposite direction, and means for temporarily holding in the first mentioned means released to allow outward feeding of the material. 19. A **towel** cabinet including, a case comprising a section for carrying a supply of **towel** and adapted to be attached to a support, and a section shiftably connected to the first section and forming the **cover** of the case, there being an **opening** in the second, named section, superimposed on the first section, and a control mechanism carried by said supports comprising a movable member having movement controlling engagement with the **towel** and located immediately behind the **opening** for manipulation through the **opening** upon the **towel** passing behind the **opening** and in front of said member. 20. A device of the character described including, a case for a supply of sheet material, the case having an **opening**, and means governing the withdrawal of material from the case including, a movable member in the case, material from said supply being trained to pass between the member and said **opening** whereby the member may be moved by pressing on the material through the **opening**, and control means operated by movement of the member. 21. A device of the character described including a case for holding a supply of sheet material, the case having an **opening** through which the material may be withdrawn and a second **opening** past which the material is movable to the first **opening**, a member in the case behind the material passing the second **opening**, and means limiting the withdrawal of **towel** from the case releasable by acting on the member through the medium of the material at the second **opening**. 22. In a device for **dispensing** sheet material, a case for housing a supply of the material, the case having an **opening** through which the user may engage a portion of the material in the case and having a discharge **opening** through which the material may pass, from the case, and means for limiting the extent of material withdrawn from the case governed by the operator acting on said portion of the material including a control part in the case at said portion of the material. 23. In a **towel dispensing** device, a supply of **towel**, a case for housing the supply of **towel**, the case having an **opening** through which the user may engage a portion of the **towel** in the case, the **opening** being of limited extent and relative to the **towel** so that the **towel** not be withdrawn or used therethrough, means for limiting the extent of **towel** dispart said charged from the case including a control movable by the user's engagement through **opening** of said portion of the **towel**. 24. In a **towel dispensing** device, a case for housing a supply of **towel**, the case having an outlet **opening** for the **towel** and a second **opening** past which the **towel** moves to the outlet **opening** and through which the user may engage a portion of the **towel** within the case, means in the case for automatically stopping the passage of **towel** from the case to limit the amount of **towel** that may be withdrawn from the case at one operation, and a member in the case to temporarily disengage said means operable by pressure applied by the user engaging said portion of the **towel** through the second **opening**. 25. In a device for **dispensing** sheet material, a case for housing a supply of the material, the case having an outlet for the material and an **opening** through which the user may engage a portion of the material confined in the case, means in the case governing the extent of withdrawal of the material from the case including a member having movement controlling engagement with the material, and means for holding the member against movement releasable by pressure applied to the material through said **opening**. 26. In a combination case, an elongate supply of paper in the case having **openings** at longitudinally spaced points, the case having an outlet for passing paper from the case, means in the case operable to hold the paper against withdrawal therefrom and releasable to allow the paper to be passed from the case and an element located in the case to cooperate with the **openings** to operate said means to limit the withdrawal of the paper from the case. 27. **Towel dispensing** apparatus of the character described including, a case, a supply of **towel** in the case in the form of a strip having **openings** at longitudinally spaced points, the case having an outlet for passing **towel** from the case, manually releasable means for limiting the passage of the **towel** from the case to the hands of the operator, and an element in the case movable through the **openings** to render said means operative. 28. Apparatus of the character described including, an apertured case for housing a supply of **towel** in the form of a strip, means in the case guiding the strip and cooperating with the apertured portion of the case so that a portion of the strip remote from its end is engageable for manipulation through the apertures, releasable means in the case for limiting the amount of withdrawal of the strip from the case, and an element in the case removable by manipulation of said portion of the strip to release said releasable means. 29. Apparatus of the character described including, a case for housing a strip of paper in roll form, a control in the case for governing the amount of withdrawal of the strip from the case, and a substantially horizontal shelf in the case adjacent the control supporting the roll of said strip, the control being located so that the roll bears on the control and the paper passes directly to the control whereby the weight of the roll prevents uncontrolled unwinding of the strip. 30. Apparatus of the character described including, a case for housing a supply of paper in strip form, the case having an outlet through which the strip passes from the case and having a second **opening** remote from the outlet through which a portion of the strip is engageable, and means in the case governing the extent of withdrawal of the paper from the case including a rotatable control member immediately behind the second **opening**, the periphery of the member being of rubber and engaged by said engageable portion of the strip whereby the member may be manipulated by pressure applied through the **opening**. 31. Apparatus of the character described including, a case for **containing** a supply of paper in strip form, the case having an outlet through which the strip passes from the case and having an **opening** remote from the outlet through which a portion of the strip may be engaged, means in the case for controlling the extent of withdrawal of the paper from the case, and a control for said means including a rotatable member having a periphery of rubber located in the case to be engaged by said portion of the strip whereby the member may be manipulated through the medium of the paper engaged through the **opening**. 32. Apparatus of the character described including a case for carrying a supply of paper in strip form, the case having an outlet for passing the paper from the case, and having a portion with an **opening** remote from the outlet through which a portion of the surface of the strip may be engaged, and means for controlling the extent of passage of the strip from the case including a member located in the case to connect the strip at the **opening**, said member cooperating with said portion of the case so that the edges of the strip are inaccessible, said member being movable by manipulation of the surface of the strip engageable through the **opening**. 33. Apparatus of the character described including, a case for **containing** a supply of paper in strip form, the case having an outlet for passing the paper from the case, and including a wall having an **opening** spaced from the outlet and through which a portion of the surface of the strip is engageable at the **opening**, and means in the case controlling the amount of withdrawal of the strip from the case including a movable member located adjacent said wall at the **opening** to conform the strip to the wall with its edges accessible through the **opening**, the member being movable by manipulation of the curved outer portion of the strip accessible through the **opening**. 34. A device of the character described including, a case for holding a supply of paper in strip form, the case having an outlet for passing the paper from the case, and including a wall having an **opening** spaced from the outlet and through which a portion of the surface of the paper strip is accessible, releasable means in the case for limiting the extent of withdrawal of the strip, and a movable member in the case located to back up the strip and cooperating with said wall to connect the strip at the **opening** so that its edges are inaccessible and movable by manipulation of the surface of the strip exposed at the **opening** to release said means. 35. A device of the character described including, a case, an elongate supply of sheet material in the case, the supply having longitudinally spaced **openings** and being weakened transversely along longitudinally spaced lines, and means for controlling the removal of material from the case and facilitating division of the material along said lines including a control member adapted to penetrate the said **openings**. 36. A device for **dispensing** sheet material including a case having a delivery slot and an access **opening**, a supply of sheet material having **openings** in predetermined locations, the supply being housed in the case with a part adjacent the **opening** in the case, and a control governing the extent of withdrawal of the material from the case including a member movable through manual engagement of said part of the material through the **opening** in the case and operable to prevent outward movement of the material, a part adapted to enter an **opening** in the material, and means for preventing movement of the member controlled by said part. 37. A **towel** cabinet including, a case for housing a supply of **towel** and having an **opening** and an outlet for the **towel**, a rotatable member in the case opposite the **opening** having supporting engagement with the roll, the **towel** from the roll being trained over the member opposite the **opening**, and means for preventing rotation of the member to limit the extent of withdrawal of **towel** from the case releasable by acting on the member through the medium of the **towel** accessible through the said **opening**. 38. In combination, a supply of **towel**, a case for housing the roll of **towel** and having an outlet through which the **towel** is delivered for use and having an **opening** in its front wall, and means wholly within the case governing the extent of withdrawal of **towel** from the case including a rotatable control member in the case having supporting and feeding engagement with the **towel** and located to support the **towel** opposite the **opening** so that the operator can reach through the **opening** to engage the supported **towel** and by pressure thereon operate said member. 39. In combination, a supply of **towel**, a case for carrying the supply and having an outlet for the **towel** and an **opening** spaced therefrom, and means governing the passage of **towel** through the outlet including, a member in the case engaging a portion of the **towel** within the case opposite the **opening** whereby it can be moved by the operator reaching

through the **opening** B.IJ.d1fD`PLV1J3 pressure to the said portion of **toweling**, and means normally preventing passaseof **toweling** through the outlet and releasable by movement of said member to permit ia. predetermined amount of **toweling** to pass through the outlet, said amount of **toweling** being such that the portion of **toweling** at the **opening** when said' member is moved by the operator is a. part of the amount of **toweling** released for passage through the outlet upon said member being moved by the operator. , " 40. In oombinationmnelongate supply of **toweling** having longitudinally spaced **openings** there,n, a. case tom' carrying the supply and having an outlet _for the **toweling** and an **opening** spaced therefrom, and means governing the passage of **toweling** through the outlet including, a member in the case engaging a portion of the **toweling** within the case opposite the **opening** whereby it can be moved by the operator reaching through the **opening** and applying pressure -to the said portion of **toweling**, and means normally preventing passage of **toweling** through the outlet and releasable by movement of sald member whereby to permit' ar predetermined amount of **toweling** to pass through the outlet and including a part operable to penetrate the **opening** in the **toweling**, said amount of **toweling** being determined by the spacing of the **openings** in the **toweling** and the spacing of the **openings** being such that the portion of **toweling** at the **opening** when said member is moved by the operator is a part of the amount of **toweling** released for passage through the outlet upon said member being moved by the operator, the transverse llnesp f weakening and the **openings** in the **toweling** being related so that upon the said predetermined amount of **toweling** being passed through the outlet the **toweling** is positlgbtxged with one of its llns of wealnenl at the o et. ' ' , ~ - 42. A **towel** cabinet including a casing having two pivotally connected sections normally forming a housing for s supply of **toweling**, -one sec- 1 G` 2,0 a'r,7eo tion forming 9, back andbottgm and the other a. top, a front and sides, there being an opening in the front, supporting means caifried by the first mentioned section, and a. control carried by the supporting means for governing the extent of passage of **toweling** from the case and including an actuating member for the control located within the case to be immediately behind the **opening** in the front of the case when the sections of the case are in the normal position and so that to'we'ling passes from the supply past said member and the **opening** whereby the member may be operated by engaging the **toweling** accessible through the **opening**. f 43. In a, paper **towel dispensing** device, a, casing adapted to receive a web of paper for delivery, said casing having a delivery **opening** for the paper, restraining means normally preventing issuance of paper from said **opening**, and movable means within the casing operable by manual engagement for movement in one direc= tion to releasess said restraining means, said casing having a second **opening** confronting said movable means to permit introduction of a. portion uf the users hand tc_ma.nipu1ate said movable means. If 44. In a paper **towel dispensing** device, a, cas~ ing, means in the casing to hold a web of papeg, said casing having a delivery **opening** for the paper, restraining means normally preventingjssuance of paper from the **opening**, movable means within the casing operable, by manual engagement for movement in one direction to release said restraining means, said casing having a. second **opening** confronting said movable means, and a, paper web p~ssing over the movable means in engagement therewith opposite said second **opening** whereby a user's iingers may be introduced through the second **opening** to engage the web and manipulate the movable means. 45. In a. paper **towel dispensing** deviqeha casing for a paper web, said casing having a. delivery **opening** for the paper, restraining means normally preventing issuance of paper from said. **opening**, movable means within the casing operable by manual engagement for movement in one direction to release saidrestmning means, said casing having a second **opening** confronting said movable means to permit introduction of a portion of the u.ser's hand to manipulate said movable means, and 9. Paper web in the casingengaglng said movable means and moving it in the' opposite direction upon withdrawal of the paper whereby the restraining means may move to nurnal position; , ~ I 46. In a paper **towel dispensing** device, a cas~ ing, a, paper web support in the casing, said casing having a delivery oneningfor the paper, restraining means normally preventing issuimce of paper from the openingquovable means Within the casing operable by manual engagement for movement in one direction to release .said restraining means, said casing having a/second **opening** confronting said xiiiovablga means, and a. paper web passing over the movable means in engagement therewith opposite said second **opening** whereby a. user's fingers may be introduced through the second **opening** to engage the web and manipulate the movable means, said paper web acting upon withdrawal from the casing 1'0 move the movable means in the opposite direction and thereby permit the restraining means to assume normal position. " 47. In a, paper **towel dispensing** device. a casing, a. paper web support therein, said casing having a. delivery **opening** for the paper, a roller mounted in the casing 'and positioned to have the paper pass around a. segment thereof on its path to the **opening**, said paper tending to rotate the roller in one direction as paper is drawn from the casing, a restraining mechanism for holding said roller against rotation in feeding direction, means normally holding the restraining mechanism in active position, said roller being manually rotatable in the opposite direction, to release the restraining mechanism. ' - 48. In a paper **towel dispensing** device, a casing, a paper web support therein, said casing having a delivery' **opening** for the paper, a. roller mounted in ,ghe casing and positioned to have the paper pass around s. segment thereof on its 'path to the **opening**, said paper tending to rotate the roller in one direction as paper is passed from the casing, a. restraining mechanism nor-" mally holding saidl roller against paper withdrawal rotation, said roller being manually ro= tatable in the opposite direction, and means operatively connected to the restraining means- and operable to release the restraining means upon rotation 'of the ,roller in said opposite direction, said casing having an access **opening** confronting the portion of Paper onysaid roller to permit introduction of the

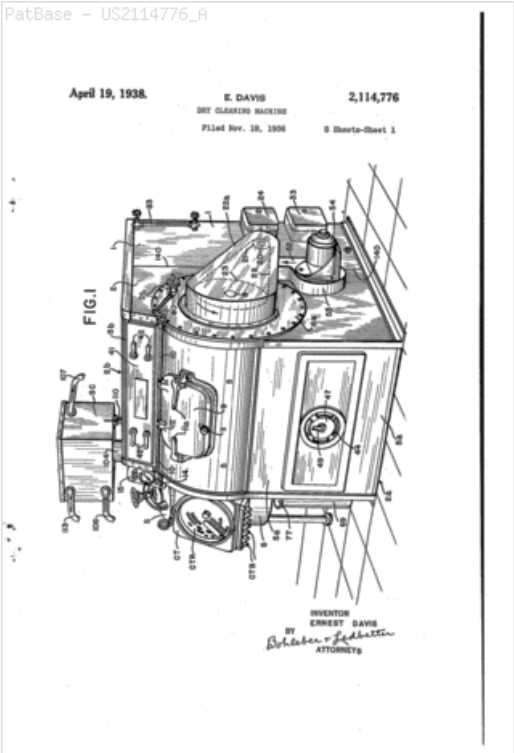


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	US2114776 A	19380419	US19360111478	19361118
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Assignee(s):(std):	PROSPERITY CO INC			
Assignee(s):	THE PROSPERITY COMPANY INC			
Inventor(s):(std):	ERNEST DAVIS			
Inventor(s):	DAVIS ERNEST			
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International class (IPC 1-7):	D06F43/08 D06M3/14			
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Forward Citations: USD800399, US9206542, US8931186, US8844160, US8615895, US8424220, US8397401, US8383035, US8302431, US8256136, US8132339, US8104192, US8082677, US8042285, US8042283, US8037618, US8015726, US8011114, US7997006, US7992322, US7987616, US7987615, US7946057, US7941936, US7926202, US7921578, US7735345, US7681419, US7665227, US7658015, US7637029, US7603878, US7571553, US7308808, US6082150, US5937675, US5058401, US4774821, US4513590, US3583181, US3429148, US3391550, US3323336, US3306083, US3274755, US3269155, US3266273, US3222896, US3206951, US3206950, US3163029, US3122908, US2836045, US2785557, US2733587, US2729961, US2689413, US2013186738, US2011277336, US2011022267, US2011016928, US2010322819, US2010306928, US2010186176, US2010162586, US2010083526, US2010043245, US2010018262, US2009158608, US2009151193, US2009126423, US2009113742, US2009071030, US2009064533, US2009049707, US2008289210, US2008189974, US2008141554, US2008136295, US2008127999, US2008127506, US2008072447, US2007163094, US2007163093, US2007151312, US2007151129, US2007095110, US2007006483, US2006288605, US2006059632, US2005278983,

Abstract:
Source: US2114776A 1, A cabinet for a dry cleaning machine comprising, in combination, external walls formed of top and bottom with side and front and rear plates the meeting edges of which are joined together to enclose therewithin an upright worktreating chamber of **sealed** construction; partition means inside the upright work-treating chamber forming internal compartments, such as a horizontal washing-liquid receptacle mounted about midway between the top and bottom of said chamber, a waslning-liquid recovery-condenser compartment under said receptacle. an air and vapor passage formed between the rear external wall and receptacle to connect said receptacle and condenser compartment, the wall plates and said partition means being common to said internal compartments and said passage; **openings** through the upper portion of the washingliquid receptacle serving to communicate the latter wlth the upper end of the air and vapor passage, and a dump tank formed in the bottom of said work-treating chamber under the condenser compartment.



Title: CALCULATOR
Priority: US19450576892 19450208
Family:

Publication number	Publication date	Application number	Application date
GB600896 A	19480421	GB19460003042	19460130
US2616626 A	19521104	US19450576892	19450208

Probable Assignee: IBM
Assignee(s):(std): BRITISH TABULATING MACH CO LTD ; IBM
Assignee(s): INT BUSINESS MACHINES CORP ; BRITISH TABULATING MACHINE CO LTD
Inventor(s):(std): AIKEN HOWARD H ; DURFEE BENJAMIN M ; HAMILTON FRANCIS E ; LAKE CLAIR D
International class (IPC 8-9): G06F7/46 (Advanced/Invention); G06F7/46 (Core/Invention)
International class (IPC 1-7): G06F7/40
CPC: G06F7/468
European class: G06F7/46C
US class: 235/476 708/277

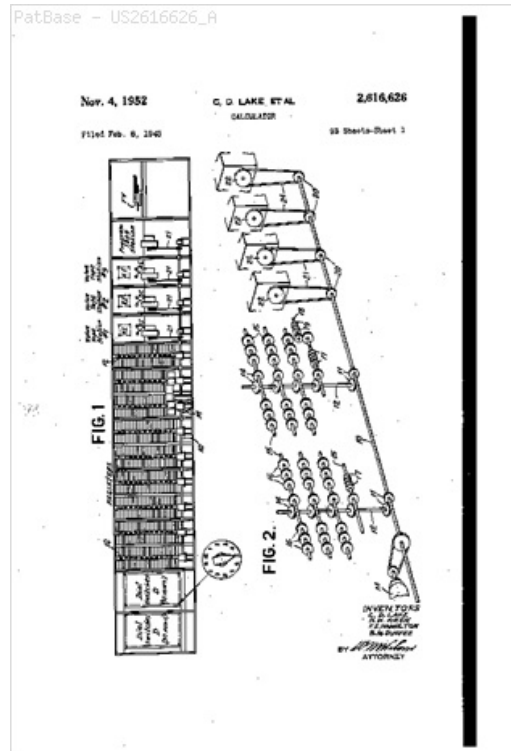
[Classification Explorer](#)

Cited documents: US2370616 A, US2366913 A, US2359631 A, US2348535 A, US2328610 A, US2323372 A, US2309069 A, US2258110 A, US2244241 A, US2237149 A, US2236794 A, US2224774 A, US2217196 A, US2194270 A, US2192003 A, US2185697 A, US2176931 A, US2176930 A, US2174699 A, US2174683 A, US2166928 A, US2165230 A, US2124906 A, US2097145 A, US2093529 A, US2062119 A, US2009021 A, US1974191 A, US1965974 A, US1876294 A, US1874184 A, US1761662 A, US1694009 A,
Forward Citations: US3343132, US3120606, US3069078, US3015442, US2977048, US2911147, US2810516, US2782985, US2782398, US2781967, US2777635, US2777634, US2692728, US2692082, US2666579, US2651458, US2651457, US2636672,

Abstract:

Source: GB600896A [Class 106 (i)] Electrical calculating apparatus for determining the value of a power series automatically, comprises a value source in which the coefficients of a plurality of terms of the series are stored, means for reading selected coefficients from the value source successively into the register of an arithmetical computing apparatus, means for setting up the argument in another register of the said computing apparatus and means for successively combining the selected coefficients with the argument to produce a total which equals the total of the selected terms of the power series. The apparatus is controlled by a programme tape and is able to add, subtract, multiply, divide, compute power series, logarithmic series, Taylor's series, square roots, logarithms, exponentials, trigonometric functions and inverse trigonometric functions, and other functions based on these operations. The machine has several rows of dial switches D, Fig. 1, and several **storage** registers, most of which have a 24-column capacity while a product-quotient register PQ, Fig. 25g, has 47 orders. In all **storage** registers, the highest order is used to determine the sign of the number, so that computation can be effected on a 23-digit number, any product having up to 46 digits. Additionally, there are a few registers having only one or two orders used as sequence registers or calculation step counters. The coefficients of the power series may be stored in code form on a value tape which can be selected according to the nature of the series and the range of the variable, or they may be obtained from the energization of relays which close selected contacts in a complex network. Drive mechanism. A motor drives several shafts carrying a large number of cams which **open** and close contacts at predetermined times in each machine cycle (Figs. 20a, b, c, not shown). Register structure. All the registers in the machine have the same general structure, as described in Specification 483,021, and rotate when clutched to the motor drive by a clutch lever controlled by an advance magnet AM, being declutched at the energization of a stop magnet SPM (Figs. 12-16, not shown). The clutch lever may be rocked to declutching position by either of two knock-off pins, operative normally at cycle points "0" and "13" in each cycle, although they may be timed early or late in some of the sequence operation registers. Each register has one or more known electrical readouts for each order. When an order passes from 9 to 0, contacts are closed to prepare carry to the next order in a carry-over cycle. Record tape handling and sensing means. The apparatus is controlled by the perforations in a programme tape, Fig. 19, which is fed forward step-by-step so that the perforations can be sensed, one line at a time. The machine also has three value tape stations, Fig. 1, one of which may be operative at any time to select a portion of the value tape bearing perforations representing coefficients of terms in a power series to be evaluated. The value tape, Fig. 17, may be fed forwards or backwards one step at a time, four lines of perforations arranged in a code, Fig. 18, being sensed at one time. The tape drive, forward or reverse, as the case may be, occurs when a clutch magnet 82 (forward) or 82r (reverse) is energized to actuate pawl-and-ratchet mechanism (Figs. 3-9, not shown). Code for programme tape. The programme tape, Fig. 19, is divided into 24 columns, perforations in the first eight selecting a source from which a value is to read out for use in a computation, the second eight select the means into which a value is to be entered and the type of calculation to be performed, while the last eight columns are used to control miscellaneous functions of the machine. The tape is sensed one row at a time by a row of pins 150P, the presence of a hole in any column in the "Out," "In" and "Miscellaneous" fields energizing a corresponding relay A1-8, B1-8, C1-8. The A, B and C relays, Fig. 22a (and Figs. 22b, 22c, not shown) close contacts to establish circuit paths to different posts a1-256, b1-256, c1-256, from which the code control is passed to different points of the machine to control its functions. Dial switches. Numbers, on which calculations are to be performed, may be entered in any of 60 rows of dial switches, twenty-four denominational switches to each row, Fig. 23. The contact arm of each switch D is connected to an "out" relay contact 1D "out" 1-24... 60D "out" 1-24 controlled by relays 1D "out" 1-60D "out," whereby values may be read out of a selected row of switches. The corresponding digit contacts in all the switches are connected to corresponding digit lines 192-0 to 192-9 connected to the central blades of invert relay contacts D "inv." 0-9. When the relay D "inv." energizes, it shifts the central blades to connect the nine-complementarily related contacts, to read out the nines complement of the number set up on the operative row of switches. The contacts are connected to the usual cam contacts SC1-9 closing briefly at cycle points 1-9 to send out digit impulses through bus-bars B1-B24 to a selected valuerceiving means. The relays 1D "out" 60D "out" are controlled by the "out" field of the programme tape through the A network shown in Fig. 22a. The relay D "inv." is energized through the C network when the "Miscellaneous" field is perforated 21. **Storage** registers. The machine, as described, has 72 **storage** registers. Parts of registers 1 and 3 are shown in Fig. 24b. The advance magnets AM of each order are connected at the energization of the corresponding relay 1S "in" -72S "in" to the bus-bars B1-24 to receive timed digital impulses from the selected readingout means. The registers have read-outs 1SRO-72SRO connected at the energization of the corresponding relay 1S "out" -72S "out" to the bus-bars to send out timed digital impulses. The registers are selected for receiving or reading-out under control of the "in" and "out" fields of the programme tape. The complement of the number in a **storage** register is read out when a relay S "inv." (not shown) is energized, Carry operations. Carry is effected in known manner, but because of the attenuation of the carry impulse in the event of successive carry through several orders, carry from the 12th and 24th orders is boosted by special quick-acting relays TB. Advance of the registers more than one step at carry is prevented by the second knock-off pin, already referred to but not shown, which acts at time "13." Resetting **storage** register. To reset a register, the register code is punched in both the in and out fields of the programme tape to operate the related S "in" and S "out" relays (Fig. 24a, not shown) to establish a circuit at time "14," when contacts SC16 close, to energize a coil S "res" which holds till time "0" in the next cycle, during which time the selected register is reset by addition of the tens complement in each order, the carry control relays being held inoperative. Multiplying and dividing section. Multiplication and division may be initiated under control of the programme tape or may occur as part of a larger operation. The operations are broadly as described in Specifications 456,367 and 497,039, but include certain additional features. A single order multiplying-dividing step register MDS, Figs. 25f, 25n, controls a column shift network and has five read-outs A-E, and is advanced only one step at a time. The dividend register DD has 45 orders while the product and quotient register PQ has 47 orders, the 47th order determining the sign and controlling direct or complementary reading-out. A register QS (not shown) evaluates the shift back of the quotient in the register

PQ and has two orders connected to two dial switches DQ (not shown) set to 22-N where N is the number of operating decimal places in the quotient. Multiplication. Operation. The first line of the programme tape is sensed to select the switch row D, Fig. 1, 23, or **storage** register from which the multiplicand is to be read, inversion taking place if the highest order, by standing at 9, indicates a negative number. In the next cycle, timed impulses representative of the number being read out are impressed on the bus-bars B1-B24, and due to the energization of a relay I "in," the digit impulses are applied to the advance magnets AM of an intermediate register I (Fig. 25a, not shown). A relay DD-PQ "res" resets the registers PQ, DD, QS. A series of well-known steps ensues to read out the multiplicand from the register I into the build-up registers ML1-9, in which multiples of the multiplicand are built up (Figs. 25b-e, not shown). During this process, the register I is reset and the second line of the programme tape is sensed to read the multiplier from its source into the register I, and from the register I into a multiplier receiving register MP, Fig. 25f, and for each order of MP which receives a significant digit, the corresponding relay MPH energizes. The energized relays MPH operate related contacts in a column shift relay network, Fig. 25l, the network being divided into sections corresponding to the odd and even orders. Circuit is established to the lowermost column shift relays CS on the odd and even sides, the energized CS relays and the corresponding orders of the register MP coacting to energize selectively corresponding multiplication relays IX9X and 1XX-9XX, Fig. 25n, according to the digits standing in the lowest odd and even orders of the register MP. The energized X and XX relays select the multiples to be read out of the ML registers (Fig. 25b, not shown) simultaneously into registers PQ and DD, respectively, by closing related sets of contacts, e.g. 1X1-2



Title:

CONTAINER SEALING METHOD AND APPARATUS THEREFOR, INCLUDING ROTARY SEALING HEAD, ROTARY HEAD SPACER, AND CONVEYER MECHANISM

Priority:

US19440558226 19441011

Family:

Publication number	Publication date	Application number	Application date
US2510568 A	19500606	US19440558226	19441011

Probable Assignee:

ANCHOR HOCKING GLASS CORP

Assignee(s):(std):

ANCHOR HOCKING GLASS CORP

Inventor(s):(std):

FOUSE FREDERICK Z

International class (IPC 8-9):

B65B43/52 B65B7/28 (Advanced/Invention);
B65B43/42 B65B7/28 (Core/Invention)

CPC:

B65B7/28 B65B43/52

European class:

64B22A B65B43/52 B65B7/28

US class:

198/358 221/273 221/277 221/290 414/797.9 53/101 53/308 53/317 53/369 53/407 53/88 53/95

[Classification Explorer](#)

Cited documents:

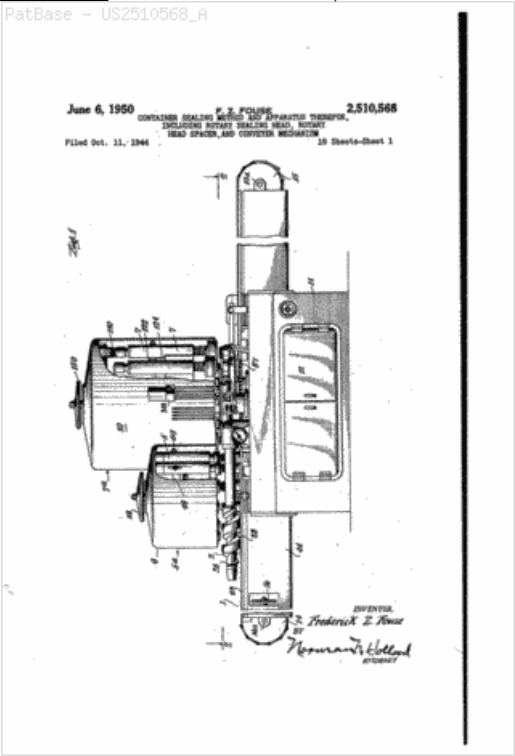
US735978 A, US2362841 A, US2329776 A, US2309929 A, US2309548 A, US2304437 A, US2298386 A, US2295692 A, US2241455 A, US2235583 A, US2184117 A, US2176448 A, US2126942 A, US2039338 A, US2025061 A, US2024846 A, US1978095 A, US1964078 A, US1817373 A, US1775255 A, US1722420 A, US1697201 A, US1649266 A, US1641480 A, US1407104 A, US1403879 A, US1355184 A, US1309935 A, US1141165 A, US1083768 A, US1078607 A, US1024493 A,

Forward Citations:

US6782676, US6168004, US5713180, US5157897, US4066162, US3807133, US3073090, US3040492, US3025875, US2984337, US2942720, US2932928, US2915862, US2735600, US2710714, US2695124, US2658655, US2649832, US2645399, US2630952, US2618424, US2009127076, US2003101689, DE1290474, DE1139430, DE1099926,

Abstract:

Source: US2510568A (Claim 1) In a **sealing** machine, the coibination of a rotary **sealing** mechanism, a continuous conveyor, a rotary head spacer for removing excess contents from overfilled **containers** prior to their entering the **sealing** mechanism, a pair of sprockets mcunted to rotait_b in a vertical plane, a sprocket on said head spacer around which the conveyor carrie_ **containers**, another sprocket on said **sealing** mechanism, the latter two sprockets being rotatable in a horizontal plane, said conveyor adapted to pass about said vertical sprockets Idly and carrying **containers** around said horizontal sprockets.

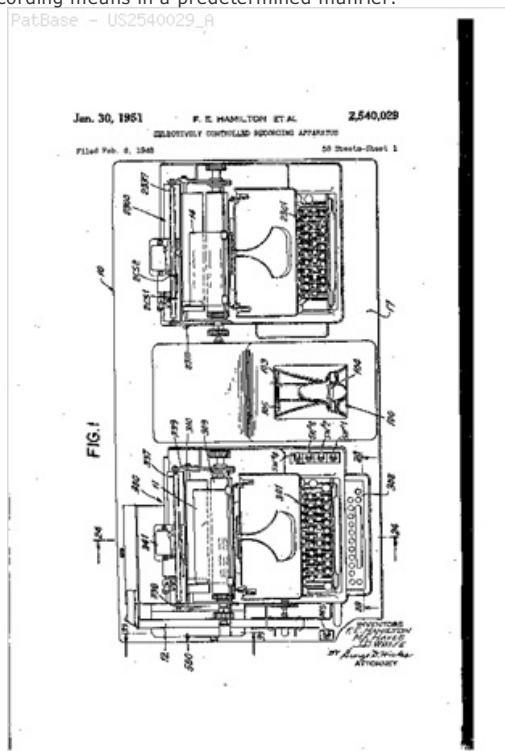


Title: SELECTIVELY CONTROLLED RECORDING APPARATUS**Priority:** US19480006664 19480206**Family:**

Publication number	Publication date	Application number	Application date
DE973003 A	19591224	DE1950I002201	19500929
FR981900 A	19510530		19490204
GB674321 A	19520625	GB19490003241	19490205
US2540029 A	19510130	US19480006664	19480206

Probable Assignee: IBM**Assignee(s):(std):** IBM ; IBM DEUTSCHLAND ; BRITISH TABULATING MACH CO LTD**Assignee(s):** BRITISH TABULATING MACHINE CO LTD ; IBM DEUTSCHLAND INT BUERO MASCH GES ; IBM DEUTSCHLAND INT BUERO MASCH GES M B H ; IBM DEUTSCHLAND INT BUERO MASCH GES MBH ; INT BUSINESS MACHINES CORP**Inventor(s):(std):** HAMILTON FRANCIS E ; HAMILTON FRANCIS ELLERY ; HAYES MAXWELL F ; HAYES MAXWELL FRED ; WOLFE JOHN D ; WOLFE JOHN DONALD**International class** G06K15/02**(IPC 1-7):****CPC:** G06K15/00**US class:** 234/17 234/36 234/57 235/61PF 400/372 400/478 400/63 400/68 400/71 400/80[Classification Explorer](#)**Cited documents:** US888808 A, US2375271 A, US2318325 A, US2297789 A, US2258405 A, US2255011 A, US2101437 A, US2046082 A, US2018420 A, US1520478 A, US1519054 A, DE735549 A, DE676015 A, AT5422 B,**Forward Citations:** US3269509, US3260340, US3069078, US3035764, US3012713, US3008635, US3007632, US2998914, US2905298, US2852076, US2850095, US2800539, US2742966, US2700446, US2647581, DE1218472,**Abstract:**

Source: US2540029A (Claim 1) In record controlled recording apparatus wherein data is selectively recorded in a copy and under the combined control of data designations recorded in the record column of a data source record and of control designations recorded in the record columns of a program control strip, the combination of a main driving motor and drive mechanism constantly operated thereby for effecting successive operating steps of the apparatus; strip sensing and feeding means controlled by said drive mechanism for sensing successively the record columns of the control strip and for advancing the control strip in such a manner that one strip record column is moved into sensing position at a strip sensing station and is sensed thereat during a normal operating step; source record sensing and feeding means operable, when operatively connected to said drive mechanism, for sensing successively the record columns of said source record and for advancing the source record in such a manner that one source record column is moved into sensing position at a source record sensing station and is sensed during a normal operating step; first and second recording means, each being operable when it is activated, to record data on a separate copy sheet; means responsive to the sensing of data designations in said source record for operating said first and second recording means to record the sensed data on the copy sheets; and means responsive to the sensing of significant control designations recorded in predetermined columns of said control strip, for operatively connecting and disconnecting the source record sensing and feeding means from said drive mechanism and for activating and de-activating said first and second recording means whereby data is selectively recorded in the copy sheets of said recording means in a predetermined manner.



Title:	PHOTOGRAPHIC FILM FORMING IMAGE TRANSFER COMPOSITION			
Priority:	19470115	US19450594892 19450521	US19470728983 19470217	
	US19500137393 19500107	US19460652612 19460307	US19480064870 19481211	
Family:	Publication number	Publication date	Application number	Application date
	US2543181 A	19510227	US19480064870	19481211
	US2603565 A	19520715	US19470728983	19470217
	US2609296 A	19520902	US19450594892	19450521
	US2627459 A	19530203	US19500137393	19500107
	US2634886 A	19530414	US19460652612	19460307
Probable Assignee:	POLAROID CORP			
Assignee(s):(std):	POLAROID CORP			
Inventor(s):(std):	LAND EDWIN H			
International class (IPC 8-9):	G03C8/34 (Advanced/Invention); G03C8/32 (Core/Invention)			
International class (IPC 1-7):	B65D81/32 G03B17/52 G03C1/42 G03C5/30			
CPC:	Y10S101/29 G03C8/34			
European class:	G03C8/34			
US class:	101/DIG.29 141/111 206/524.2 222/107 222/491 222/541.3 222/541.4 222/92 226/19 229/68.1 396/32 396/42 430/162 430/202 430/207 430/208 430/211 430/212 430/213 430/217 430/220 430/222 430/227 430/230 430/249 430/251 430/262 430/404 430/456 430/458 430/466 430/496 430/497			

[Classification Explorer](#)

Cited documents: US916325 A, US786535 A, US786534 A, US783613 A, US2543181 A, US253354 A, US2469204 A, US2435720 A, US2435719 A, US2430995 A, US2402605 A, US2373285 A, US2365556 A, US2361936 A, US2352014 A, US2350931 A, US2350380 A, US2347640 A, US2340142 A, US2334600 A, US2326058 A, US2323246 A, US2322027 A, US2322006 A, US2322005 A, US2319560 A, US2315966 A, US2299694 A, US2284236 A, US2270845 A, US2259796 A, US2228762 A, US2214446 A, US2211498 A, US2209914 A, US2209087 A, US2201511 A, US2197994 A, US2196901 A, US2196226 A, US2184166 A, US2162027 A, US2151383 A, US2139040 A, US2138486 A, US2136007 A, US2124231 A, US2121397 A, US2102858 A, US2071821 A, US2027642 A, US1950863 A, US1944323 A, US1836699 A, US1823296 A, US1794382 A, US1742809 A, US1735219 A, US1618575 A, US1592584 A, US1592379 A, US1563228 A, US1504920 A, US1467543 A, US1360624 A, US1355976 A, US1277048 A, US1258523 A, US1256981 A, US120742 A, US1207042 A, US1077835 A, US1015130 A, GB541045 A, GB480108 A, GB476614 A, GB452013 A, GB445611 A, GB328762 A, GB190821692 A, GB190607521 A, GB190509248 A, GB190017738 A, FR879995 A, FR815877 A, DE567011 A, DE370821 A, DE369146 A, CH234484 A,

Forward Citations: WO09101395, WO0210856, WO0125851, USRE29942, US6565271, US6517989, US6291128, US5858608, US5514517, US4877710, US4830222, US4536081, US4519689, US4507381, US4490456, US4476213, US4443530, US4429037, US4309499, US4303751, US4303750, US4204869, US4186015, US4186013, US4168166, US4110079, US4070398, US4054233, US4054232, US4030920, US4028103, US3928037, US3853557, US3816128, US3779848, US3770441, US3767404, US3750907, US3655407, US3652282, US3652281, US3649279, US3622332, US3613545, US3507650, US3455691, US3450535, US3428082, US3416921, US3415647, US3397988, US3396647, US3364027, US3364025, US3351469, US3345166, US3345165, US3275203, US3256090, US3250616, US3246984, US3238043, US3227551, US3221942, US3220835, US3192044, US3173580, US3167429, US3157504, US3152515, US3113866, US3111407, US3093478, US3091530, US3090687, US3087816, US3079849, US3072481, US3069262, US3056491, US3047387, US3043690, US3037670, US3033677, US3012885, US3003875, US2992106, US2992102, US2991702, US2983606, US2982650, US2963953, US2930692, US2923623, US2898208, US2897080, US2882155, US2866542, US2861885, US2857276, US2857274, US2852691, US2846309, US2843485, US2823122, US2815310, US2804236, US2799435, US2798021, US2789054, US2784086, US2782120, US2779017, US2778734, US2759825, US2750075, US2740714, US2735774, US2726154, US2725298, US2723051, US2709135, US2705676, US2702244, US2702146, US2698798, US2698245, US2696439, US2674532, US2669516, US2665986, US2663641, US2661293, US2659673, US2653872, US2647049, US2644756, US2644755, US2616807, US2614926, US2612450, US2612449, US2609296, US2010071277, JP60194448, EP0109769, EP0042081, DE976310, DE974191, DE2436102, DE1937055, DE1240401, DE1163143, DE1151176, DE1147116, DE1145486, DE1095115, DE1056476, DE1047620, DE1028426, DE1024357, DE1020865,

Abstract:
Source: US2603565A (Claim 1) 1. As _a new compo8ition, viscous film-fcyrming -,processing agent comprising, in aqueous,solution, :hydroquinone, _sodiumthiosulfate, an alkali, and:sodium:carbox ymethyl cellulose in suffi _cient:quantity to impart to said _solution _a -viscosity of the-order_of l_000 to 200,000 centi poises at a,ltemperature-of approximately 24' C.

July 15, 1952

E. H. LAND

2,603,565

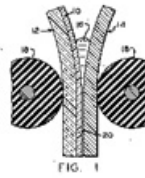
PHOTOGRAPHIC FILM FORMING IMAGE TRANSFER COMPLETES
Filed Feb. 27, 1947

FIG. 1

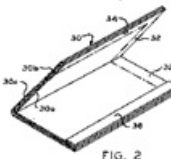


FIG. 2

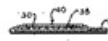


FIG. 4

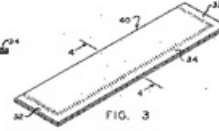


FIG. 3

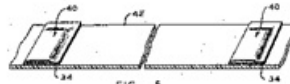


FIG. 5

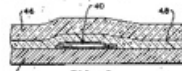


FIG. 6

INVENTOR
E. H. Land
BY
Donald R. Brown
Attorney

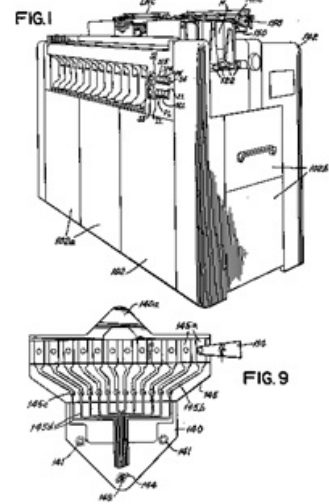
Title: RECORD CONTROLLED MACHINE**Priority:** US19490073842 19490131 US19490073843 19490131 US19500204661 19501229
US19490073845 19490131 US19490073844 19490131

Family:	Publication number	Publication date	Application number	Application date
	DE1040836 A	00000000		00000000
	DE1040836 B	00000000		00000000
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	US2558941 A	19510703	US19490073843	19490131
	US2615569 A	19521028	US19490073844	19490131
	US2651460 A	19530908	US19500204661	19501229
	US2658682 A	19531110	US19490073842	19490131
	US2738874 A	19560320	US19490073845	19490131

Probable Assignee: IBM**Assignee(s):(std):** BRITISH TABULATING MACH CO LTD ; IBM ; SIEMENS AG ; SIEMENS BERLIJN EN MUENCHEN BON AG**Assignee(s):** SIEMENS BERLIJN EN MUENCHEN BONDSREPUBLIC DUITSLAND AG ; INT BUSINESS MACHINES CORP ; BRITISH TABULATING MACHINE CO LTD**Inventor(s):(std):** DURFEE BENJAMIN M ; LAKE CLAIR D ; PIATT DONALD R ; WILSON LAWRENCE A**International class** C04B35/38 H01F1/34 (Advanced/Invention);**(IPC 8-9):** C04B35/26 H01F1/12 (Core/Invention)**International class** C04B35/38 G03C1/10 G06C11/04 G06F15/10 G06F7/00 G06F7/06 H01F1/34**(IPC 1-7):****US class:** 101/19 101/2 101/494 209/554 234/30 234/56 235/424 235/425 235/427 235/429 235/432 235/434 235/442[Classification Explorer](#)**Cited documents:** US2602544 A, US2580768 A, US2531895 A, US2511996 A, US2501821 A, US2486809 A, US2484081 A, US2480780 A, US2448026 A, US2442987 A, US2434512 A, US2386482 A, US2379828 A, US2377762 A, US2375307 A, US2364540 A, US2359670 A, US2355282 A, US2240546 A, US2232006 A, US2231186 A, US2230673 A, US2230129 A, US2229451 A, US2220489 A, US2189024 A, US2181999 A, US2165325 A, US2120233 A, US2103559 A, US2090103 A, US2089255 A, US2034542 A, US2033969 A, US1989840 A, US1930266 A, US1884189 A, US1880413 A, US1862032 A, US1834561 A, US1830756 A, US1453492 A, US1197276 A, US1134752 A,**Forward Citations:** US3226682, US3173129, US3070366, US3029019, US3023399, US2995297, US2994429, US2990956, US2962211, US2955993, US2951699, US2941717, US2923469, US2903961, US2894627, US2863604, US2861259, US2846067, US2846066, US2838175, US2817480, JP56016468, JP48043462, DE1191615,**Abstract:**

Source: GB688383A 688,383. Typewriters and c. BRITISH TABULATING MACHINE CO., Ltd. Jan. 30, 1950 [Jan. 31, 1949; Jan. 31, 1949; Jan. 31, 1949; Jan. 31, 1949], No. 2371/50. Class 100(iv) [Also in Group XIX] A record-card-controlled machine for census and like statistical purposes (see Group XIX) includes mechanism for printing on a record sheet, Fig. 42, amounts read out from unit counters and a foursection accumulator and a " group number " held in an electronic **storage** unit. The functions of the machine are controlled by a plugboard, Figs. 49A -R (not shown). Type-bar machines; hammer impression arrangements.-A record sheet is divided into half-sheets Fig. 42, which are printed simultaneously, two columns at a time by four printing banks each comprising four type bars 161, Figs. 13 and 20, carried by a fixed plate 160. The half-sheets are carried on typewriter-like carriages comprising platens 155 and the banks are so spaced that, e.g. columns 1, 16, Fig. 42, and like columns 31 and 46, are printed together. Each set of bars 161 is slidably mounted in a vertically slidable frame 169 and supported by spring-urged arms 172. The frames 169 are raised during each printing cycle by cams 182 on shafts 183, Figs. 3 and 20, and carry the bars 161 with them until the latter are stopped by spring-urged pawls 175 released from the armature of magnets PM, Fig. 13, energized at times depending on the digits to be printed. The subsequent relative movement of a bar 161 and frame rocks an interposer 300 which closes checking contacts CKC through a T-member 301 for entry of the value printed into the accumulator. The bars 161 have-pawls 167 which cause automatic printing of zeros to the right of a significant figure. Printing hammers 189 are guided in comb slots in an operating frame 192 secured to a shaft 190, Figs. 3 and 13, which is rocked under control of a cam (not shown) fixed to a gear 196a. An inking ribbon 197 is provided for each carriage and feeding and reversing mechanism therefor.including spools 198. After printing, the pawls 175 are returned to latching position by a bail 178 secured to a shaft 179 which is rocked by a pin on a gear 186, Fig. 3. The gears 196a, 186 are driven by gears 188 on shafts 183 which are driven from a main print shaft 220, Fig. 20, when clutched to a co-axial shaft 216 connected to the motor shaft 120 and rotating at a slower speed than the card feed shaft 117. The shaft 216 carries a notched collar 222, Fig. 23, which co-acts with a dog 223 pivoted on an arm 219 fixed to the shaft 220. When the clutch magnet PCM is energized its armature releases the dog and the clutch is engaged for one or more revolutions. Letter-spacing, carriage-return, and line-spacing mechanism.-Each carriage is fed step by step by spring motor 350 and tape 351, Fig. 20, under control of spring-urged escapement pawls 353, Fig. 17, and a rack 352. The pawls have slots engaging a pivot 354, and the one engaging the rack is pulled leftward, Fig. 17, by the motor 350 so that its tail is in the path of an operating member 356. When the escapement solenoid (not shown) is energized it pulls down this member through linkwork 361, 358 and the rack is stepped one half tooth space into engagement with the other pawl, the functions of the pawls then being reversed. The carriages are coupled by a tie rod 362, Fig. 20, to ensure movement in unison. Each carriage is returned by a tape 409 wound on a pulley 408 normally loosely mounted on a shaft 406, Fig. 18, driven by worm gearing from the high speed shaft 117, Fig. 3. When the solenoid CRS, Fig. 13, is energized a lever 424 is rocked and a cam 422 is rotated by a spring-operated arm. 423 so that its serrated tread engages the resilient surface of a roller 407 on the shaft 406. The cam is then rocked with its supporting lever 420, thus pulling down a lever 416, Fig. 18, connected by a toggle link 415 to a twopart lever 412. The lever 412 actuates a disc friction clutch 411 to couple the pulley 408 to shaft 406, and the clutch engagement is maintained by the toggle action. The clutch is released when the carriage has been returned by a lug on the appropriate marginal stop (not shown) which rocks a trip lever 454, Fig. 20, connected by a link 455, lever 456 and link 458, Fig. 13, to a toggle-restoring lever 459. The marginal stops are adjustably mounted on a rack 450 and those for the carriage shown in Fig. 20 carry cam plates 461 which operate switches MS1, MS2 having roller-carrying operating levers 462. The switch MS1 is used for indicating that the carriage is in the returned position. The operation of switch MS2 initiates carriage return and other operations (see Group XIX). A third switch MS3 is operated when the carriage is in the first three positions for printing the amounts on the accumulator and the group number in the " Amount " and " Sort " columns respectively of the record sheet, Fig. 42. When a carriage is returned, the tape 409 operates the line-spacing. mechanism, Fig. 19, by rocking a bell-crank 479 which pulls down a spring-retained slide 477 so that a pawl 476 steps on the line-spacing ratchet 475. The pawl is normally held away from the ratchet by an arm 481 which can be set in three different positions for different line-spacing movements by a control lever 484 engaging one of three notches therein. The carriage shown in Fig. 20 carries contact brushes 506- which pass over contact strips to control the sequence of printing operations.

March 20, 1956 L. A. WILSON ET AL. 2,738,874
 IMPROVED CONTROLLED MACHINES
 Filed Jan. 31, 1949 68 Sheets-Sheet 1



Title: PLASTICS CONTAINERS AND PACKAGES

Priority: CA19680027429 19680814 CA19710128297 19711122 DE1950M008064 19501230
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 GB19680028360 19680614

Family:	Publication number	Publication date	Application number	Application date
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	GB712202 A	19540721	GB19510028923	19511210
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	JP55039310 B4	19801009	JP19680053987	19680801
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	YU32706 B	19750630	YU19680001825	19680731
	ZA6903656 A	19710127	ZA19690003656	19690522

Probable Assignee: ICI LTD**Assignee(s):**(std): ICI LTD ; BULL SA MACHINES ; RECKITT AND SONS LTD ; IMPERIAL CHEMICAL INDUSTRIES LTD LONDON ; MICHAEL MAUL ; MAUL MICHAEL**Assignee(s):** RONALD A HUDSON ; IMPERIAL CHEMICAL INDUSTRIES LIMITED ; IMPERIAL CHEMICAL INDUSTRIES

LTD ; IMPERIAL CHEMICAL IND LTD ; IMPERIAL CHEMICAL LTD GB ; COMPAGNIE DES MACHINES BULL ; ANDREW G FORD ; BULL MACHINES SA ; IMPERIAL CHEMICAL ; IMPERIAL CHEM IND LTD ; IMP CHEMICAL IND LONDON GB LTD ; IMPERIAL CHEM IND LTD GB ; IMP CHEMICAL IND LTD ; IMP CHEMICAL LTD GB ; IMP CHEM IND LTD ; RECKITT AND SONS LIMITED

Inventor(s):(std): AUGUSTUS HUDSON RONALD ; FORD ; FORD A ; ANDREW GEORGE FORD ; FORD ANDREW G ; FORD ANDREW GEORGE ; FORD ANDREW GOERGE ; GEORGE FORD ANDREW ; HUDSON ; HUDSON R ; HUDSON RONALD A ; HUDSON RONALD AUGUSTUS ; LEWIS JOHN WILLIAM ; MAUL MICHAEL ; MICHAEL MAUL ; RONALD AUGUSTUS HUDSON

Inventor(s): RONALD AUGUSTUS HUDSON HERTS GB ; ANDREW G FORD ; RONALD A HUDSON ; JOHN WILLIAM LEWIS ; HUDSON RONALD A GB ; HUDSON R A ; HUDSON R GB ; FORD ANDREW G GB ; ANDREW GEORGE FORD AND RONALD AUGUSTUS HUDSON ; FORD A G ; FORD A GB

Agent(s): S HOROWITZ AND CO

International class (IPC 8-9): A23L2/00 A23L3/00 B05B11/00 B65B3/00 B65B3/02 B65B3/04 B65B3/18 B65B31/00 B65B31/04 B65B31/06 B65B51/00 B65B51/10 B65B9/00 B65D33/16 B65D75/10 B65D77/18 B65D81/20 C07D489/12 F17C1/16 (Advanced/Invention); A23L2/00 A23L3/00 B05B11/00 B65B3/00 B65B3/04 B65B31/00 B65B31/04 B65B51/00 B65B51/10 B65B9/00 B65D33/16 B65D75/04 B65D77/10 B65D81/20 F17C1/00 (Core/Invention); B65B B65D (Subclass/Invention)

International class (IPC 1-7): A23L2/38 A23L3/00 B05B11/00 B65B3/02 B65B3/04 B65B3/18 B65B31/00 B65B31/04 B65B31/06 B65B5/00 B65B51/00 B65B51/10 B65D11/00 B65D53/08 B65D83/14 C07D489/00

CPC: C07D489/12 B65D77/18 B65D81/2061 B65B31/046 B65B55/20 B65D33/1616 B65B51/00 G06K7/02

European class: 124HM3C B65B31/04E B65B51/00 B65D33/16D B65D77/18 B65D81/20D2 C07D489/12 G06K7/02 L65B55/20

US class: 141/290 141/48 206/0.6 206/46 220/62.12 222/394 234/115 234/124 234/129 383/119 383/96 426/106 426/116 426/131 426/404 426/410 426/411 426/413 426/477 53/133.1 53/415 53/434 53/512 99/17.1B

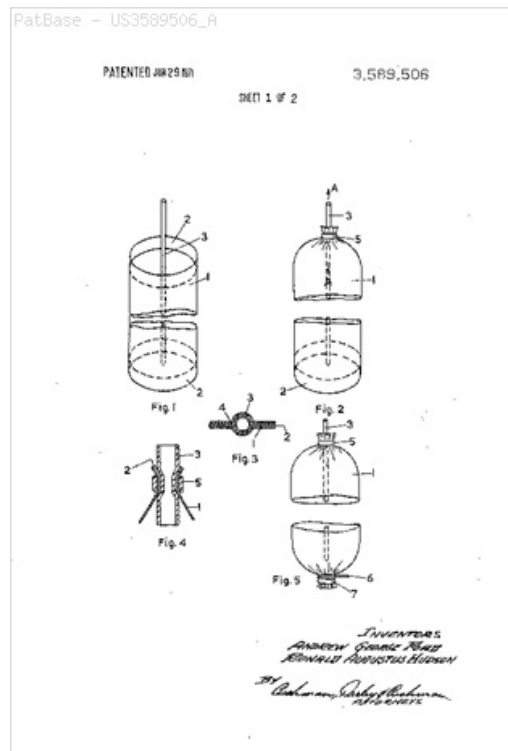
[Classification Explorer](#)

Cited documents: US3358821 A, US2547456 A, US2444564 A, US2315741 A, US2279161 A, US2210552 A, US2168434 A, US1856737 A, US1818338 A, US1657696 A, US1195605 A, IT649849 A, GB957509 A, GB926159 A, GB900753 A, FR1447945 A, BE520561 A, AT125360 B,

Forward Citations: WO12057982, WO12050463, WO10129530, WO04042763, WO04042763, US8827114, US8745960, US8661772, US8568029, US8468779, US8002139, US7805913, US7490452, US7165376, US6592702, US6585843, US6415943, US6070750, US6036046, US5976085, US5951799, US5768859, US5697366, US5532011, US5492721, US5226564, US4920726, US4779736, US4734292, US4699809, US4531656, US4529108, US4491247, US4479243, US4457456, US4440319, US4340379, US4224970, US4116336, US4113146, US4055201, US4001450, US3982029, US3877197, US3851688, US3791557, US3780488, US3735093, US3447743, US3128943, US2014182244, US2013167481, US2011192121, US2011182533, US2011068154, US2010282824, US2010281831, US2010252585, US2009324783, US2009007523, US2009003736, US2007095424, US2006254219, US2005106291, JP6181770, JP51153078, JP2016504346, FR2578816, FR2373973, FR2228679, FR2228679, FR2196938, EP2062897, EP2062896, EP0265577, EP0219750, EP0219750, EP0051443, EP0039626, EP0021188, DK151450, DK151450, DE4132422, DE2722265, DE2647983, CN102548847, CN102548847,

Abstract:

Source: US3589506A Plastics film **container** for contents under superatmospheric pressure, closed by a bunched neck provided with a **sealable** material forming an internal gasket, and an external mechanical **closure**, and with a releasably **sealed** tube passing through the bunched neck.



Title: NOVEL PHOTOGRAPHIC PRODUCTS AND PROCESSES

Priority: BE19680711896 19680308 BE19700752586 19700626 DE19681622936 19680308
 US19520315281 19521017 US19670622298 19670310 US19670638817 19670516
 DE19702038260 19700731 US19680782056 19681209 US19670622283 19670310
 US19690846441 19690731 US19680782075 19681209 US19700065084 19700819
 US19720262332 19720613 US19690846442 19690731 US19710211176 19711223
 US19690804942 19690306

Family:	Publication number	Publication date	Application number	Application date
	AT317671 B	19740910	AT19700002066	19700305
	AU197012088 A1	19710909	AU19700012088	19700303
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	BE754193 R	19710201		00000000
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US3783075 A	19740101	US19710211176	19711223

Probable Assignee: POLAROID CORP

Assignee(s):(std): BELL TELEPHONE LABOR INC ; INT POLAROID CORP ; INT POLAROID CORP 1 EXCHANGE PLACE JERS ; POLAROID CAMBRIDGE MASSACHUSETTS VER S CORP ; INT POLAROID TE JERSEY CITY CORP ; INT POLAROID JERSEY CITY NEW CORP ; WESTERN ELECTRIC CO ; POLAROID TE CAMBRIDGE MASSACHUSETTS VE CORP ; POLAROID CORP US ; POLAROID CORP 730 MAIN STREET CAMBRIDGE MASSACHUS ; POLAROID CORP

Assignee(s): POLAROID CORP CAMBRIDGE MASS US ; POLAROID CORP CAMBRIDGE MASS V ST A ; WESTERN ELECTRIC CO INC ; POLAROID CORP 730 MAIN STREET CAMBRIDGE MASSACHUSE ; POLAROID CORP 730 MAIN STREET CAMBRIDGE MASSACHUSETTS E U A ; POLAROID CAMBRIDGE MASSACHUSETTS VER ST V AM CORP ; POLAROID TE CAMBRIDGE MASSACHUSETTS VER ST V AM CORP ; INT POLAROID CORP 1 EXCHANGE PLACE JERSE ; INT POLAROID CORP JERSEY CITY N J V ST A ; INT POLAROID CORP 1 EXCHANGE PLACE JERSEY CIT ; INT POLAROID CORP 1 EXCHANGE PLACE JERSEY CITY NEW JERSEY E U A ; INT POLAROID JERSEY CITY NEW JERSEY VER ST V AM CORP ; INT POLAROID TE JERSEY CITY NEW JERSEY VER ST V AM CORP ; LAND EDWIN H ; INT POLAROID CORP JERSEY CITY N J US ; INT POLAROID CORP JERSEY CITY N J V ST ; BELL TELEPHONE LABORATORIES INC ; EDWIN H LAND ; INT POLAROID

Inventor(s):(std): EDWIN HERBERT LAND ; EH LAND ; EHLAND ; GODDARD CHARLES T ; HERBERT LAND EDWIN ; LAND E ; LAND E H ; LAND E US ; LAND EDWIN H ; LAND EDWIN HERBERT ; BUCKLER SHELDON A ; E H LAND ; LAND ERWIN HERBERT

Inventor(s): LAND ERWIN HERBERT CAMBRIDGE MASS US ; LAND ERWIN HERBERT CAMBRIDGE MASS ; LAND EDWIN HERBERT CAMBRIDGE MASS VSTA ; EDWIN H LAND ; BUCKLER SHELDON A LINCOLN MASS US ; LAND EDWIN HERBERT CAMBRIDGE MASS V ST A

International class (IPC 8-9): C07C17/38 C07C7/00 C07C7/148 G03C8/08 G03C8/26 G03C8/42 G03C8/44 G03C8/46 G03C8/52 G03C8/54 H01J25/34 H03F1/20 H03F1/50 (Advanced/Invention); C07C17/00 C07C7/00 G03C8/00 G03C8/02 H01J25/00 H03F1/08 H03F1/42 (Core/Invention)

International class (IPC 1-7): B32B7/00 C03C7/00 C08F19/00 C09J5/00 G03C G03C1/00 G03C1/40 G03C1/48 G03C5/00 G03C5/54 G03C7/00 G03C7/26

CPC: G03C8/26 H01J25/34 H03F1/20 H03F1/50 Y10S430/142 Y10S156/922 Y10S428/913 G03C8/426 G03C8/46 G03C8/52 Y10T156/1092 Y10T156/11 Y10T428/31855 C07C17/38 C07C7/005 C07C7/1485 B32B7/12 B32B23/08 B32B27/306 B32B2307/412 B32B2307/7166 B32B2317/18 B32B2329/04 B32B2331/04 G03C8/44

European class: C07C17/38 C07C7/00C C07C7/148D4 G03C8/26 G03C8/42M G03C8/44 G03C8/46 G03C8/52 H01J25/34 H03F1/20 H03F1/50

US class: 156/182 156/291 156/299 156/30.9 156/310 156/344 156/701 156/922 313/297 313/350 313/6 315/39 333/112 427/412.1 427/412.2 428/500 428/913 430/207 430/208 430/212 430/213 430/215 430/216 430/218 430/220 430/236 430/238 430/243 430/496 430/941 96/0.3 96/29 96/290 96/3 96/76 96/760

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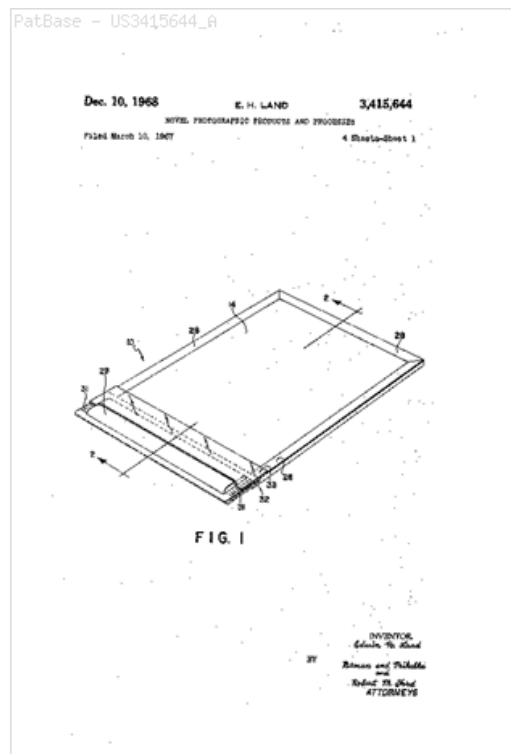
Forward Citations: WO8002333, USRE29942, US7655298, US6922799, US6671032, US6565271, US6517989, US6291128, US6103912, US5811530, US5747219, US5716754, US5691458, US5541046, US5342730, US5328787, US5264322, US5244771, US5187282, US5176972, US5159381, US5150067, US5014082, US4998128, US4987441, US4972224, US4972217, US4956665, US4894678, US4891298, US4887118, US4886733, US4824761, US4615966, US4614681, US4541704, US4537486, US4508809, US4502767, US4496651, US4484808, US4472041, US4456674, US4395102, US4392732, US4389110, US4387978, US4370407, US4367277, US4359517, US4356248, US4346160, US4329411, US4317626, US4298682, US4298674, US4294907, US4288533, US4272594, US4250244, US4242443, US4201578, US4190447, US4179538, US4154610, US4153459, US4138254, US4124386, US4056397, US4042396, US4030920, US4028103, US4021241, US4003744, US3994731, US3993486, US3990898, US3976489, US3976486, US3960558, US3907563, US3902905, US3893855, US3880658, US3841879, US3833381, US3833367, US3819381, US3819371, US3816128, US3816126, US3793023, US3793022, US3787209, US3778271, US3778265, US3775127, US3770439, US3765887, US3765885, US3751256, US3751254, US3652282, US3652281, US3647437, US3647435, US3647434, US2006014012, US2004202463, JP63040158, JP58052211, JP56040327, JP55042373, JP55003693, JP54011693, JP53044823, JP52050539, JP49103628, JP49048327, JP48075235, JP48064931, JP48045226, GB2000310, GB2000310, EP0210660, EP0200216, EP0139963, EP0055858, EP0009744, DE3109259, DE3048166, DE2841705, DE2816878, DE2319470, DE2319469, DE2319467, DE2300173, DE2263015, DE2263014, DE2261588, DE2248593, DE2152535, DE2127842, DE2102427, DE2064884, DE1964534,

Abstract:

Source: US3415644A ABSTRACT OF THE DISCLOSURE

The present invention relates to photography, particularly, to photographic products specifically adapted for employment in specified photographic diffusion transfer color processes and, more particularly, to photographic products which comprise a composite photosensitive structure which **contains** a plurality of essential layers including, in sequence, a dimensionally stable opaque layer; one or more silver halide emulsion layers each having associated dye image-providing materials which are soluble and diffusible, in alkali, at a first pH; a polymeric image-receiving layer; a polymeric acid layer **containing** sufficient acidifying groups to effect reduction of a processing composition from a first pH to a second pH at which the dye image-providing materials are insoluble and nondiffus-ible; and a dimensionally stable transparent layer, and to specified photographic diffusion transfer

processes employing such products. The photosensitive composite structure will include means securing the respective layers in fixed or laminate relationship and may include a rupturable **container** retaining an alkaline processing composition possessing the first pH and **containing** an opacifying agent which may reflect incident radiation, in a quantity sufficient to mask dye image-providing materials associated with the silver halide emulsion, upon distribution of the composition intermediate the silver halide emulsions and image-receiving layer during photographic diffusion transfer color processing in accordance with the present invention.



Title: PRESSURE SENSITIVE LABEL STRIP FOR USE IN A LABEL PRINTING MACHINE

Priority: CA19780294962 19780113 CA19790294962 19790814 CA19790339642 19791113
 NL19520171784 19520813 JP19780015723U 19780213 JP19770033374 19770328
 JP19780155772U 19781114 JP19780155772 19781114 JP19770003374 19770328
 US19780867007 19780105 US19780926704 19780720

Family:	Publication number	Publication date	Application number	Application date
	AR218027 A1	19800515	AR19770268480	19770719
	AT588077 A	19830915	AT19770005880	19770812
	AU197726726 A1	19790111	AU19770026726	19770704
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	JP55073966 U1	19800521	JP19780155772U	19781114
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	JP57028195 Y2	19820619	JP19780015723U	19780213
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	SE432843 C	19840726	SE19770012336	19771101
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	SE7712336 L	19780929	SE19770012336	19771101
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	US4210688 A	19800701	US19780926704	19780720
	US4335172 A	19820615	US19790093634	19791113
	ZA7704557 A	19780628	ZA19770004557	19770728

Probable Assignee: SATO KK**Assignee(s):(std):** GRINTEN CHEM L V D ; KABUSHIKI KAISHA SATO TE TOKIO ; SATO KK ; SATO CO LTD ; SATO K K ; SATO KABUSHIKI KAISHA**Assignee(s):** SATO YO ; KABUSHIKI KAISHA SATO TOKIO TOKYO JP ; K K SATO ; KABUSHIKI KAISHA SATO ; CHEMISCHE FABRIEK L VAN D GRINTEN N V ; CHEMISCHE FABRIEK L VAN D GRINTEN NV ; CHEMISCHE FABRIEK L VAN DER GRINTEN N V**Inventor(s):(std):** HUTGENS KAREL MARIE ; KAREL MARIE HUTGENS ; MARIA HUTGENS KAREL ; PETRUS WILHELMUS SANDERS THEOD ; SANDERS THEODOR PETRUS WILHELM ; SATO Y ; SATO YO ; SATOU AKIRA ; WILHELMUS SANDERS THEODORUS PE ; Y SATO ; YO SATO

Inventor(s): HUTGENS KAREL MARIA ; WILHELMUS SANDERS THEODORUS PETRUS ; SATO YO TOKIO TOKYO JP ; SANDERS THEODOR PETRUS WILHELMUS ; SANDERS THEODORUS PETRUS WILHELMUS ; MARIE HUTGENS KAREL

Agent(s): CA; ARTHUR S CAVE AND CO; MEREDITH AND FINLAYSON

Designated states: BE CH DE FR GB IT NL SE

International class (IPC 8-9): B32B3/00 B32B3/16 B32B7/06 B65C1/00 B65C11/00 B65C11/02 B65C9/18 G03C1/54 G09F3/00 G09F3/02 G09F3/03 G09F3/04 G09F3/10 (Advanced/Invention); B65C1/00 B65C11/00 G09F3/00 (Advanced/Non-invention); B32B3/00 B32B3/14 B65C1/00 B65C11/00 B65C9/08 G03C1/52 G09F3/00 G09F3/02 G09F3/03 G09F3/10 (Core/Invention)

International class (IPC 1-7): B31D1/02 B32B3/00 B32B3/16 B32B7/00 B32B7/06 B65C11/00 B65C11/02 B65C9/08 B65C9/18 B65D65/30 C09J7/04 D21H1/04 G07B5/02 G09F3/00 G09F3/02 G09F3/04 G09F3/10

CPC: G09F2003/0229 G03C1/54 Y10S206/82 Y10S428/915 Y10S428/906 B65C9/1865 B65C11/0247 B65C2210/0067 G09F3/0286 G09F3/10 G09F2003/023 G09F2003/0267 Y10T156/1062 Y10T428/149 Y10T428/24322 Y10T428/1495 Y10T428/24314

European class: B65C11/02B2B4D B65C9/18B G03C1/54 G09F3/02B G09F3/10 L65C210/00F S09F3/02A15C S09F3/02A7C S09F3/02A8

US class: 156/256 206/820 283/101 283/103 283/81 40/638 40/674 428/136 428/137 428/41 428/42 428/42.2 428/42.3 428/906 428/915 430/148 430/149 430/172 430/183 430/185 430/187

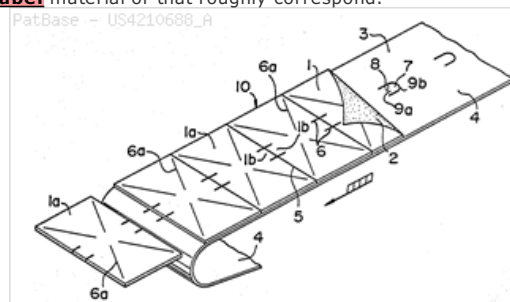
[Classification Explorer](#)

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Forward Citations: WO9109734, WO8807737, WO13053564, WO10049174, WO10049174, USD481067, USD478122, USD476680, US9259848, US8986803, US8763526, US8763523, US8757058, US8535483, US8468938, US8443725, US8312655, US8287977, US8287976, US8283013, US8268429, US7044561, US6379790, US6280549, US5947525, US5824379, US5725708, US5691023, US5679428, US5667085, US5573621, US5453311, US5411295, US5324380, US5091035, US5074594, US5031938, US5013088, US4822017, US4624482, US4583765, US4581996, US4540648, US4425394, US4335172, US4309468, US4274902, US4224397, US4148646, US3849138, US3622326, US3539347, US3484241, US3385705, US3382070, US3353984, US3331690, US3238044, US3121232, US2994610, US2012141715, US2011126439, US2010072104, US2010006587, US2008280088, US2005230961, US2005104438, US2004123944, JP59012482, JP58149766, JP58149765, JP58146276, JP52097725, JP52080118, FR2500945, EP2093075, EP0822143, EP0822143, EP0796738, EP0499574, EP0284963, EP0123953, EP0118086, EP0102599, EP0083070, EP0041116, EP0041116, EP0041116, EP0011163, DE3931018, DE3711256, AU629791,

Abstract:

Source: US4210688A A pressure sensitive **label** strip comprising a tape-like strip of **label** material that is overlaid on a tape-like strip of backing material; parting cut lines extend transversely across the strip of **label** material at regular intervals so as to form a plurality of unit **label** pieces; feeding cut lines in the strip of backing material define a plurality of feeding tongues having their connected portions oriented in the direction of forward motion of the **label** strip, and the feeding tongues are at positions that either correspond to the positions of the pairs of feeding cut lines of the **label** material or that roughly correspond.



Title: INTELLIGENCE STORAGE EQUIPMENT
Priority: GB19530002014 19530123 GB19530015938 19530610 GB19530017034 19530619
 GB19550027442 19550927

Family:	Publication number	Publication date	Application number	Application date
	BE525923 A	00000000		00000000
	BE529482 A	00000000		00000000
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	BE529745 A	00000000		00000000
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	US2981789 A	19610425	US19560602608	19560807
	US3024993 A	19620313	US19540437176	19540616

Probable Assignee: STANDARD TELEPHONES CABLES LTD

Assignee(s):(std): INT STANDARD ELECTRIC CORP ; STANDARD TELEPHON AND RADIO AG ; STANDARD TELEPHONES CABLES LTD

Assignee(s): STANDARD TELEPHON U RADIO AG ; STANDARD TELEPHONES AND CABLES LTD

Inventor(s):(std): DAVID REYNOLDS JOHN ; DONALD ADAMS WEIR ; GOODWIN WRIGHT ESMOND PHILIP ; JOHN DAVIC REYNOLDS ; JOSEPH RICE ; PHILIP GOODWIN WRIGHT ESMOND ; REYNOLDS JOHN D ; REYNOLDS JOHN DAVIC ; RICE JOSEPH ; WEIR DONALD ADAMS ; WRIGHT ESMOND P G ; WRIGHT ESMOND PHILIP GOODWIN ; ADAMS WEIR DONALD

Inventor(s): DAVIC REYNOLDS JOHN

International class G06F7/02 H04L12/54 H04L13/08 (Advanced/Invention)

(IPC 8-9):

CPC: H04L13/08 G06F7/026 H04L12/54 G06F7/02

European class: 42M37G2D2 G06F7/02 H04L12/54 H04L13/08

US class: 178/2.00R 178/2R 708/705

[Classification Explorer](#)

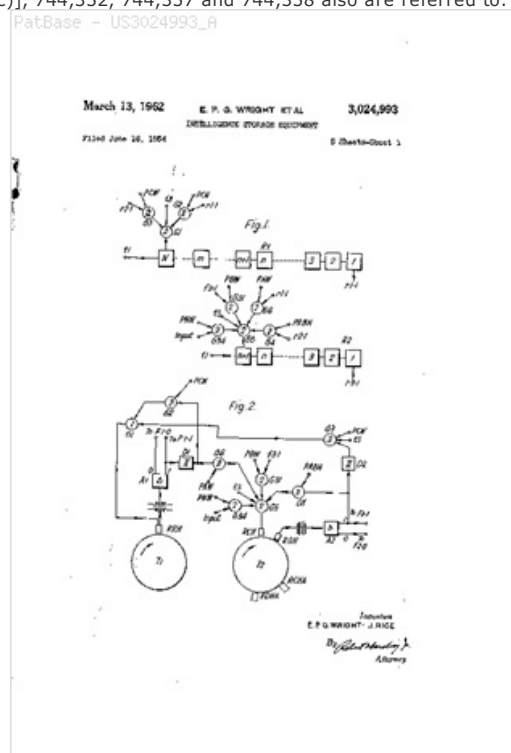
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Forward Citations: US3789366, US3764987, US3529076, US3456077, US3448213, US3403383, US3363059, US3351913, US3327294, US3274559, US3246298, US3231864, US3230513, US3222647, US3219979, US3196403, US3104380, US3087010, US3085236, US3051940, US3020336, DE1295595, DE1290947, DE1275088, DE1264113, DE1256677, DE1222530,

Abstract:

Source: GB762094A 762,094. Electric digital-data-**storage** apparatus. STANDARD TELEPHONES and CABLES, Ltd. June 4,1954 [June 10, 1953], No. 15938/53. Class 106 (1). [Also in Group XL (b)] An arrangement for the **storage** of information comprises a number of members for storing information to be received or transmitted, means for applying a distributor mark to a store as being the next to be used for reception or transmission and transferring the mark from store to store and means for detecting the mark and for controlling the direction of the information into or from the marked store. The signal elements are recorded on a drum section which has at the beginning of the section an element position T indicative of reception or transmission, and elements M1, M2... Mn providing distributor operation for reception and transmission. The drum is rotated at 50 revolutions per second and produces clock pulses - p, at 500 per second. A wave form PT is positive for the pulse T and wave form L is positive for the last element on the track. Pulses PM, WM are positive respectively for the duration of the M pulses and for the periods of the code combination of the elements of the individual characters. Three relatively delayed trains of short pulses t1, t2, t3 are produced, a pulse t1, t2, t3 occurring within the period of a PT or PM pulse. The timing of the operations is controlled by circuits C1, C2, the circuit C1 having a cycle corresponding to ten of the - p pulses, i.e. 20 ms., and the circuit C2 being stepped after each interval of 20 ms. The asterisks indicate the elements which are initially energized. Recording and **storage** of received characters. When the arrangement is to be used for receiving and storing information, the key KRO is in the left-hand position, and the initial spacing impulse operates the trigger F1 to position 1 so that gate G1 **opens** and permits gate G2 to pass pulses - p to step the counter C1. At time 30 ms. after the beginning of the start element denoted by c2.2, c1.5, the pulse from Tp is applied to gate G29 and if it is a space, element 5 of the register R1, of the type described in Specification 663,754, [Group XL (b)], is energized. At subsequent mid-element instants the remaining code elements are registered on elements 4... 1 of the register R1. At the end of 120 ms., C2 will step to c2.7 and the PT pulse occurring during the next revolution of the drum will operate F4 to f4.1 and the subsequent PM pulse operates F5 to position 1. The energization of f4.1 **opens** gate G37, Fig. 5, so that a pulse t2 **opens** gate G45 and operates recording device F9 to position 2 to record a " 0 " in the M1 position. At time t3 in the same PM pulse gate G19 **opens** and trigger F4 returns to the position 2. When the wave form WM corresponding to the first section appears gates G42,

G43 are prepared, and at time t2 if r 1.51 is positive, G44 will **open** and operate F9 to position 1 and cause a space to be recorded. At time t3 gates G14, G15, Fig. 3, will **open** and, step the pattern to the right so that the second element is on R1.5 and r1.5.1 will be positive if a space. By means of the inverter X1, a mark will make r15.0 positive. For the PM pulse coinciding with M2, f3.1 is not energized and gates G34, G35 are closed. Gate G36 is **opened** by f4.2 and f5.1, and at time t2, G44 is **opened**, F9 is operated to position 1 and " 1 " is recorded in the M2 position. At time t3 during this PM pulse G21 and hence G22 will **open**, and with F5.2 re-operated the existing elements on the drum will be again recorded. Gate G35 causes M3 to be recorded as " 0 " and the third character re-recorded. When the second character is sent from T/p and the time scale reaches the position C2.7, circuit F41 is operated by/1.1 1 and PT and f4.1 is energized so that the PM pulse occurring with M2 **opens** F51 the contents of R1 are recorded by F9 in position 2 and since f4.2 is not energized until time t3 of the PM pulse coinciding with M2, both M1 and M2 will be recorded as " 0 " by gate G37. Until time t3 of the PM pulse coinciding with M3, f5.1 remains energized so that a " 1 " is recorded for element M3 by means of G36. The third character is passed from the teleprinter to the register R and the first " 1 " coinciding with a PM pulse will be M3 causing f4.1 to be energized and M3 to be recorded as " 0 ". The PM pulse **opens** G20, Fig. 4, energizing f5.1 and the contents of R1 corresponding to the third signal from the teleprinter are recorded on the drum. As there are no further Mn elements of condition " 1 ", a pulse PT coinciding with element T is used to reset F5 to the condition with F5.2 energized. Retransmission of stored characters. For this operation the key KRO, Fig. 2, is moved to the right and an impulse X occurring with a PT pulse **opens** gate G32 and at time t2 operates device F9 to record a " 1 " in the position T on the drum. During the next cycle when the element T is read F3.1 will be operated and F6.1 will be operated by the **opening** of gate G23. For the next PM pulse, i.e. coincident with M1, G38 is operated and F9.1 operated to cause M1 to be recorded as " 1 ". Also at time t2 of PM, G28, Fig. 4, is **opened** and F7 operated to position 1 whilst at time t3 of the pulse PM, G24 is **opened** and F6.2 re-energized. On the occurrence of the WM wave form at time t2 if the first element is a space, F3.1 is operated, and via gate G16, Fig. 3, element R1.0 is energized, and at time t3 the state of R 1.0 is passed to R 1.1. By subsequent pulses t2, t3 occurring during the WM positive wave form the elements are passed to R1.0 and the pattern stepped. When the PM pulse coinciding with M2 appears gate G29 is **opened** at t1 and F7.2 is re-energized. At the same time G5, G6 are operated and F2 is moved to position 1 so that the time scale C1, C2 is brought into operation. At time c1.2, G46 in Fig. 6 **opens** and F10 moves to position 1 to operate relay TR to space. At successive times c2.2, c2.3... c2.6, G50 and G52 will **open** and G51 or G53 will be **opened** in dependence on the first element passing from R1.5. At c1.7 G55, G15 will **open** and R1 will be stepped so that the element R1.5 is mark for the signal being retransmitted and r1.50 is positive. At c2.3 G53 **opens** and at c1.2, F10 changes over to F10.2 and TR is operated to send mark. At c1.7 the register is advanced and as the third element is a space TR returns to space at c1.2 of the next cycle. When c2.7 is reached, at time c1.2, F10.2 is energized to transmit mark for the stop signal which persists until a time set up by c1.7, c2.8, i.e. 150 ms., from the commencement of the start signal when gate G7, Fig. 2, operates F2 to position 2 producing a reset. pulse T to **open** gate G4 and restore the time scale to positions c1.1, c2.1. When F2.2 is re-energized, the first PT pulse which follows **opens** G23 and F6.1 is energized and the PM impulse of M2 **opens** gate G28 for F7.1 and the elements of the second character are passed to R1.0 and stepped to the positions R1.5 to R1.1. Circuit F7.2 is re-energized for the PM pulse coinciding with M3. At the same time F2.1 is operated and the time scale started so that the contents of R1 are transmitted to the line. The third character is transferred to the register and transmitted in a similar manner, and since M1, M2, M3 are all " 1 ", G28 cannot **open**. Circuit F6 is returned to position 2 by the last pulse PL and element T is recorded as " 1 " via gate G32. After the characters have been transmitted, KRO is restored to the lefthand position, G33 (Fig. 5) is **opened** and F9.2 is energized causing a " 0 " to be recorded for T. Also the next PT pulse **opens** G23, Fig. 4, causing F6.1 to be energized and G31 **opens** so that F8.1 is energized. At time t3 in the subsequent PM pulse, G26 is **opened** and F6.2 operated. As F6.1 is still energized at time t2 of this PM pulse, a " 1 " is recorded for M1, but M2, M3 will be recorded as " 0 ". The pulse PL at the end of the section restores F8 to the position 2. Modifications. More than one message or set of data may be stored by a multiplexing arrangement similar to that shown in Specification 744,356, and messages or sets of varying length recorded with the use of an end-of-message character. The drum may have a number of tracks with the recording and reading heads staggered around the periphery. Further the transfer from the register to the store may be effected element-by-element instead of character-by-character with a bi-stable device in lieu of the pattern register. Specifications 713,902, [Group XL (c)], 744,352, 744,357 and 744,358 also are referred to.



Title: DISPOSABLE FILTER BAG FOR SUCTION CLEANERS**Priority:** US19540402716 19540107 US19540402717 19540107 US19540402719 19540107
US19540402718 19540107 US19540457738 19540922 US19540428228 19540507

Family:	Publication number	Publication date	Application number	Application date
	DE1162979 B	19640213	DE1955H022617	19550107
	FR1118902 A	19560613		19550106
	FR1118903 A	19560613		19550106
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	GB770758 A	19570327	GB19540037718	19541230
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	US2789661 A	19570423	US19540457738	19540922
	US2864462 A	19581216	US19540428228	19540507

Probable Assignee: HOOVER CO**Assignee(s):(std):** HOOVER CO ; HOOVER LTD ; HOOVER LTD PERIVALE**Assignee(s):** HOOVER PERIVALE LTD ; THE HOOVER COMPANY ; HOOVER LIMITED ; HOOVER LIMITED PERIVALE**Inventor(s):(std):** BRACE GEORGE ALTON ; BRACE GEORGE A**International class (IPC 8-9):** A47L5/36 A47L9/14 (Advanced/Invention);
A47L5/22 A47L9/14 (Core/Invention)**International class (IPC 1-7):** A47L9/14**CPC:** Y10S55/02 Y10S55/03 Y10S277/918 A47L9/1445 A47L9/1481 A47L9/1454 A47L9/14 A47L9/1427
A47L5/362**European class:** A47L5/36A A47L9/14 A47L9/14D A47L9/14D2B A47L9/14D2B2 A47L9/14E**US class:** 15/327.1 15/327.7 277/646 277/918 55/362 55/367 55/373 55/375 55/378 55/380 55/502 55/DIG.2
55/DIG.3 96/404[Classification Explorer](#)**Cited documents:** US831603 A, US808170 A, US540856 A, US2719600 A, US2661078 A, US2656897 A, US2646855 A, US2642061 A, US2621757 A, US2618411 A, US2596808 A, US2590235 A, US2582219 A, US2580645 A, US2577863 A, US2574683 A, US2571125 A, US2564467 A, US2559564 A, US2549373 A, US2537205 A, US2528332 A, US2516707 A, US2444762 A, US2439182 A, US2388280 A, US2245953 A, US2242278 A, US2192224 A, US2153580 A, US2070674 A, US1832846 A, GB190827162 A, FR997741 A, FR932776 A,**Forward Citations:** WO9515108, WO04058031, USD661441, USD654234, USD617064, US9757005, US9730566, US9510721, US9451861, US9375668, US9192276, US9015887, US8887340, US7662200, US7594296, US7473360, US7332005, US7040528, US6746501, US6733555, US6245120, US6136055, US5820643, US5766283, US5755009, US5741341, US5699585, US5472465, US5472460, US5468272, US5158635, US5089038, US4805257, US3871847, US3856491, US3706184, US3483679, US3477209, US3410060, US3385039, US3334371, US3334370, US3328826, US3297231, US3296781, US3286446, US3280538, US3273322, US3260038, US3252274, US3197118, US3090181, US3046718, US3040363, US3031826, US2995206, US2987241, US2980205, US2870863, US2010237155, US2008099512, US2007113528, US2006242787, US2006130268, US2006123588, US2004168280, US2004045124, US2003183568, US2003168501, JP56130131, GB2295769, GB2295769, GB2167680, GB2162086, FR2870705, FR2409036, FR2374005, FR2374005, EP1602307, EP1602307, EP1583451, EP1068828, EP1020160, EP1002493, EP0677270, EP0409038, EP0391338, EP0362624, EP0336914, EP0336914, EP0280664, DE8908911, DE4341248, DE4227617, DE4007147, DE4002868, DE3919256, DE3833799, DE19616385,**Abstract:**

Source: GB765857A 765,857. Suction cleaners. HOOVER, Ltd. Jan. 4,1955 [Jan. 7, 1954; Jan. 7, 1954; May 7, 1954], No. 251/55. Classes 8(1) and 8(2) A suction cleaner comprises an expendible filter bag 28 that is closed except for an inlet **opening** in one generally flat wall 33, a mounting plate 35 having an **opening** 36 and secured to the flat wall 35 with the **openings** in register and a valve plate 39 having an **opening** 36¹ and which is carried by the mounting plate 35 so as to slide between an **open** position in which the **opening** 36¹ registers with those in the filter:and the mounting plate and a closed position in which it closes them. The mounting plate 35 is provided with slots 37, 38 and the valve plate 39 with lugs 40 which are threaded into the slots. 37 while the other end of the valve plate passes through the slot 38; the mounting plate is slotted:at 42 to expose the end of the valve plate 39 which is provided with a hole 41. The mounting plate 35 is secured to the face 33 by an annular area surrounding the **opening** 36 so that the edges of the mounting plate are free from the filter bag. In a modification the valve plate slides between two members forming the mounting plate which members are spaced apart by a spacing member which is provided with a shoulder which is engageable by lugs on the valve plate to limit the movement thereof. In Figs. 1, 3 the first embodiment is shown mounted in a cleaner housing 10 which is provided with guide channels 43, 45 into which the mounting plate 35 slides, the hole 41 being engaged by a hook 51. 'The sides of the plate 35 and the channels 43 may be convergent for location purposes. In addition the cleaner is provided with a filter ejection device which comprises a - rod 52 slidable in a bracket 46 and the end ring 19, and carrying a lever 55, loaded by,a spring 53, engaging the end of the filter mounting plate, the channels 43, 45 being provided with suitable notches. The rod 52 is pushed inwardly by the engagement with the end thereof, of the end **cover** 20 so that the spring 53 is loaded. On **opening** the end **cover** 20 the spring 53 forces the lever 55 outwardly and the filter is partially ejected. Since the hook 51 engages the hole 41 in the valve plate the latter is moved relatively to the mounting plate and the **opening** 36 therein is closed. The suction inlet connection 58 is provided on its lower exterior surface with coarse threads which are engaged by similar threads on a member 65 secured to a **sealing** member 64; the member 65 has in addition a radial flange 66 engageable by a pin 67 carried on the rod 52 so that inward movement of the rod 52 partially rotates the member 65 which moves down on the threads causing the **seal** 64 to engage the top of the mounting plate 35; outward movement of the rod 52 causes the **seal** 64 to release the filter. The Specification describes a construction in which the second embodiment of filter is mounted on the end - **cover** of a cleaner and an arrangement in which the end **cover** is connected to two spring loaded rods which raise the end **cover** carrying the filter, clear of the housing. The end **cover** carries similar devices to those shown in Fig. 1 for releasing a suction inlet **seal** and for partially ejecting the filter bag from the end **cover**. In addition the Specification describes how the mounting plate may be fitted to a handle propelled type suction cleaner. Specification 765,858 is referred to.

Dec. 16, 1958 G. A. BRACE 2,864,462
DISPOSABLE FILTER BAG FOR MOTOR CLEANERS
Filed May 7, 1956 5 Sheets-Sheet 1

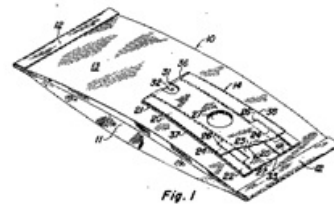


Fig. 1

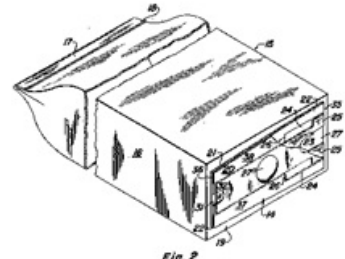


Fig. 2

Title: AUTOMATIC TELEGRAPH SWITCHING SYSTEM WITH MULTIPLE CALL PROCESSING
Priority: US19530387354 19531021

Family:	Publication number	Publication date	Application number	Application date
	BE532693 A	00000000		00000000
	GB759343 A	19561017	GB19540029915	19541018
	US2946843 A	19600726	US19530387354	19531021

Probable Assignee: AUTOMATIC ELECT LAB
Assignee(s):(std): AUTOMATIC ELECT LAB
Assignee(s): AUTOMATIC ELECTRIC LABORATORIES INC
Inventor(s):(std): STILES RICHARD C
International class H04L12/62 (Advanced/Invention);
(IPC 8-9): H04L12/60 (Core/Invention)
International class H04L11/24
(IPC 1-7):
CPC: H04L12/54
European class: H04L12/62
US class: 178/2R

[Classification Explorer](#)

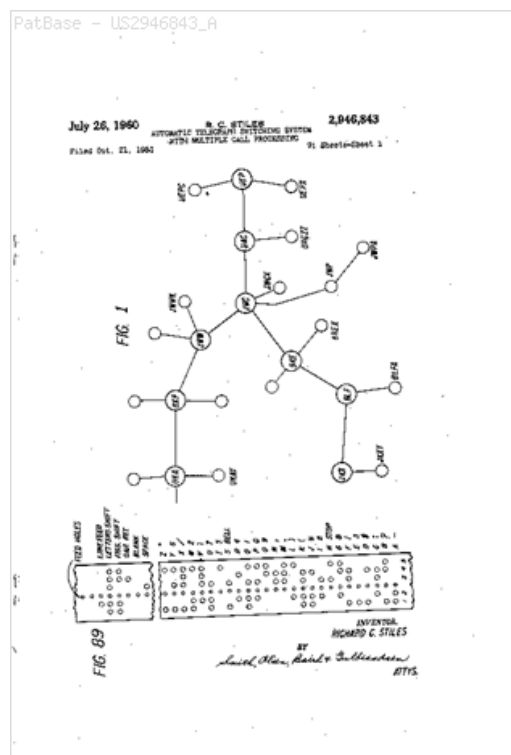
Cited documents: US2805283 A, US2766318 A, US2759043 A, US2738376 A, US2735884 A, US2714626 A, US2672508 A, US2672501 A, US2669602 A, US2667533 A, US2654797 A, US2635139 A, US2571182 A, US2352060 A, US2300050 A, US2229480 A, US2194663 A,

Forward Citations: US3200192, US3100814,

Abstract:

Source: GB759343A 759,343. Telegraph exchange systems. AUTOMATIC ELECTRIC LABORATORIES, Inc. Oct. 18, 1954 [Oct. 21, 1953], No. 29915/54. Class 40 (3). An automatic telegraph switching system includes a switching centre, and a number of stations, each identified by address codes, and means in the switching centre can record a number of address codes followed by a message, and store the message in connection with the outgoing line indicated by each address code, further means then transmitting the message independently over each outgoing line accompanied by the appropriate address codes. The apparatus is broadly similar to that in Specification 722,777 and if a message has a single destination the operation is the same. In the case of a multiple address message, the apparatus of the original application directed the message to a manual operator position for dealing with multiple calls. In the present apparatus, automatic means are substituted for the manual operator. As shown in Fig. 2A, an incoming line circuit X400 of a switching centre UAC (shown on the diagram of Fig. 1) **contains** a director assignor X800, directors X200A, and cross office selectors X3300 all operating as described in the prior Specification. In addition each unit X3300 can select one of a number of multiple call **storage** units 1400 when a multiple address call is received and the latter is recorded by reperforator 1410 in the unit. A multiple call message consists of the following items:- (1) The start of message indicator. (2) A three-letter code identifying the incoming line, together with a number indicating the number of messages so far received over this line. (3) A precedence indicator as described in Specification 722,777. (4) The routing indicator identifying the relay switching centre that is responsible for retransmitting the message to a number of destinations (VAC in this example). (5) A multiple call indicator (ZVA). (6) Letters which identify the precedence and letters which identify the various destinations. (7) The body of the message. (8) The date and time. (10) The end of message indicator. When such a message is received, the first two items when detected cause a director (e.g. X200A) to be associated with incoming circuit X400. The precedence and muting indicator are then detected and registered, and, as a result, routing translator X2900 applies a potential to a jack in patch panel X3200 resulting in the operation finally of a multiple call relay XR2450 in cross office selector group X2600 (Fig. 7A). An indication is also registered in the multiple call register in the precedence detector X2300. Multiple call relay XR2450 is operated and this causes the director X200A to pick up a multiple call **storage** unit 1400 from the pool or one that already **contains** a multiple call message of the same precedence, the unit 1400 **containing** a register which receives signals from the precedence indicator switch. The main parts of unit 1400 are shown in Fig. 14. When one of the latter has been picked up, a signal is returned to incoming line circuit X400 to permit it to start retransmission of the entire message, and the motors of unit 1400 are started to drive its reperforator 1410, tape reader 1420, and transmitter 1430. When the tape reader X340 (Fig. 7B) senses the end of message indicator, it controls the feed of tape X333 to ensure the passage of this indicator through retransmitter X360, and the incoming line circuit X400 disconnects and restores to normal, while unit 1400 is left marked busy. As a precaution the start relay of the latter cannot operate until a slack tape operated switch indicates that the reperforator 1410 has processed enough tape. Also means are provided to insert a definite amount of blank tape between messages, in order to ensure the release of common equipment to be described later. The latter is called for when **storage** unit 1400 has detected and registered a start of message indicator. The calling means (control unit 1000, Fig. 2A) includes relays connected with the precedence detector so **arranged** that a particular message can always interrupt the calling process of a message of lower precedence. Operation in the **storage** unit 1400 is as follows. At first the unit is connected to the precedence sensing unit 6700, the prosign detector 2900, and the address detector 3300 in the common equipment, and the tape reader 1420 transmits information from the recorded message to them, though the prosign detector 2900 does not use the information if the message **contains** no prosigns. A counter in unit 1000 also counts the characters in the message, after the start of message indicator. The use of this will appear later. As the routing indicator follows the precedence indicator it is arranged that any possible letter formation of the former will not be acceptable to the interlocked relays of the precedence detector and no false indication can be produced in the latter. The routing indicator when read by detector 3300 is then stored in the routing register 3700. If this indicator has a " good " first character followed by a second character which is a " good " first character but not usable as a second character both are registered and if the third character received is a " good " second character the first " good " first character is abandoned. When the multiple call indicator is registered, the address detector 3300, and the routing register 3700 restore and all indications in the latter are abandoned. After this the indicator identifying the destinations is read and the following processes are set into operation. The multiple-call translator 2100 (Fig. 2B) is associated with the routing register 3700 (Fig. 2A) so that each indicator may be processed and also recorded on tape and stored. When a routing indicator is processed through translator X2900 (Fig. 2A), the identity of the outgoing line is registered in channel converter unit 4500 (Fig. 2B). The latter then seizes a channel relay unit such as 7900 corresponding to the desired outgoing line and the routing indicator is stored in unit 7900, unless it relates to an outgoing line directly connected to a tributary station of the present switching centre. The second routing indicator appearing on the message stored in the multiple call **storage** unit is now sensed and a channel relay unit corresponding to a suitable outgoing line for this indicator is seized. Sensing continues until all the routing indicators are processed and a character indicating the end of these appears on the message stored in unit 1400. The latter terminates the sensing operations of tape reader 1420. If the message is being transmitted to several destinations all reached by one line from the present station, the one channel relay unit registers the indicators for these destinations in preparation for sending. out one message with several routing indicators. If there is a cross office unit X3400 connected to the desired outgoing line and **containing** messages of a similar precedence to the message being considered, this unit is seized. If there is no cross office unit marked with the desired precedence, hunting switches search for an empty cross office unit. With messages of high precedence the first step is omitted, and an empty unit is searched for at once. The channel relay unit 7900 is then connected through its cross office selector 8300 to the cross office unit X3400 which has been chosen. After the various routing indicators for the message have all been processed and the various channel relay units have been connected to their appropriate cross office units, the precedence indicators for all the messages to be sent out are transmitted to all the engaged cross office units. A channel multiplying unit 8700 is provided, with groups of connected contacts for providing the desired number of identical signals. A monitor page printer 8750 is also provided which records some of the code signals of all multiple call messages, and also records the pilot message headings of all messages sent out in response to receipt of a multiple call message. After the above units have operated the channel selector switch control unit 4600 (Fig. 2B) is operated and the

channel selector switch 4601 selects channel relay units one at a time so that certain relay switching centre routing indicators and certain prosigns may be transmitted. Also the unit 4600 may be used a second time to control the transmission of tributary station routing indicators. As the result of processing in the apparatus the original multiple call message is now stored in a number of cross office units X3400 but the multiple call equipment has modified some of the pilot headings in these messages so that they only now have the information required for the particular outgoing line they are on. The entire original message as it appears on the tape on the multiple **storage** unit is then simultaneously transmitted to all of the marked cross office units. Each of the latter has now produced a perforated tape which is used, as soon as its outgoing line is available to transmit independently the original message, preceded by the new pilot heading information, over this line. The pilot heading information will **contain** prosigns, which indicate to subsequent switching centres which of the routing indicators to process. For example, the prosign ZWL indicates that all the tributary station indicators, except those following the prosign, are to be processed in the relay station. Another class of prosign is defined as a network prosign and consists of three identical characters. These prosigns indicate that only tributary station indicators beginning with the same letter as that of the prosign should be processed. As a result of the above processes a single message from switching centre UEP (Fig. 1) reaches centre UAC where, for example, a message is sent to tributary centre UACZZ and the message passes on also



Title: MAGNETIC STORAGE DEVICE**Priority:** DE1948D011464 19481001 DE1948P011464 19481001 GB19500015773 19500623
GB19540037208 19541223 GB19540037214 19541223 GB19540037214 19500623
GB19540037208 19500623 US19550498048 19550330 US19580732891 19580505

Family:	Publication number	Publication date	Application number	Application date
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	GB786047 A	19571113	GB19540037229	19500623
	GB786048 A	00000000		00000000
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	US3530285 A	19700922		19651023

Probable Assignee: DIRKS ELECTRONICS CORP**Assignee(s):(std):** DIRKS ELECTRONICS CORP ; GERHARD DIRKS ; GERHARD DIRKS DR**Assignee(s):** DR GERHARD DIRKS**Inventor(s):(std):** DIRKS DR GERHARD ; DIRKS GERHARD ; GERHARD DIRKS**International class (IPC 8-9):** G01D15/12 G06C27/00 G06F15/00 G06F15/02 G06F3/02 G06F3/09 G06F7/38 G06K15/10 G06K7/016
G11B27/00 G11B5/00 G11B5/004 G11B5/008 (Advanced/Invention);
G01D15/00 G06C27/00 G06F15/00 G06F15/02 G06F3/02 G06F3/09 G06F7/38 G06K15/02 G06K7/01
G11B27/00 G11B5/00 G11B5/004 G11B5/008 (Core/Invention)**International class (IPC 1-7):** G06C11/08 G06C27/00 G06F15/00 G06F15/10 G06F3/06 G06F3/10 G06F3/14 G06F7/22 G06F7/24
G06F7/38 G06F7/50 G06K15/18 G06K15/20 G06K7/00 G06K7/14 G11B5/02 H04L15/12 H04L15/18
H04L15/24**CPC:** G01D15/12 G06C27/00 G06F3/09 G06F7/38 G06F15/00 G06F15/02 G06K7/016 G11B5/00 G11B5/004
G06K15/10 G11B5/008 G11B27/00 G06F3/0227 G06F3/08**European class:** 42M37G2D 42M37G2D2 G01D15/12 G06C27/00 G06F15/00 G06F15/02 G06F3/02H G06F3/09 G06F7/38
G06K15/10 G06K7/016 G11B27/00 G11B5/00 G11B5/004 G11B5/008**US class:** 178/15 178/17.5 178/3 235/176 235/419 340/172.5 360/121 360/48 360/49 360/51 360/61 360/78.02
708/604 711/4 G9B/5.001[Classification Explorer](#)**Cited documents:** US3154770 A, US3102997 A, US3028583 A, US2982470 A, US2895674 A, US2850719 A, US2832064 A,
US2787416 A, US2782398 A, US2769592 A, US2727685 A, US2721990 A, US2714048 A, US2648589 A,
US2625607 A, US2617704 A, US2611813 A, US2540654 A, US2359617 A,**Forward Citations:** US4321485, US4207273, US3441909, US3299418, US3297992, US3226681, US3123706, DE975966,
DE974795, DE974701, DE2748218, DE1574960, DE1146295,**Abstract:**

Source: US3403385A ABSTRACT OF THE DISCLOSURE

A selective data **storage** arrangement comprising first magnetic data signal **storage** means including reading means, second data signal **storage** means including writing means, transmitting means interconnecting said reading and writing means. The arrangement further includes selective electronic gating means comprising at least two electronic gating elements which are rendered conductive in a selective manner. This application is a division of my application Ser. No. 107,283, now Patent No. 3,228,007, filed Apr. 26, 1961, entitled, "Magnetic **Storage** Device," which application Ser. No. 107,283, in turn, is' continuation application of my application Ser. No. 498,047, filed Mar. 30, 1953 and entitled "Magnetic **Storage** Devices," which application Ser. No. 498,047, in turn, is a continuation-in-part of my application Ser. No. 101,032, filed June 24, 1949, entitled, "Electronic Office Machine With Computing-, Indicating-, Printing-, Storing- and Sorting-Mechanisms."

Sept. 24, 1968

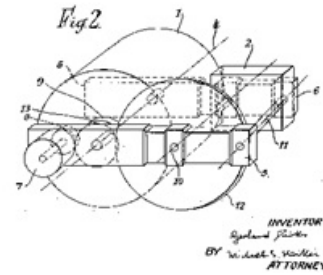
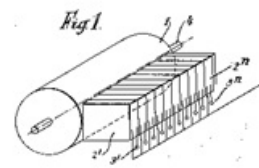
G. DIRKS

3,403,385

MAGNETIC STORAGE DEVICE

Original Filed March 30, 1958

12 State-Street 1



INVENTOR

Spokane Falls

BY Michael S. Harker
ATTORNEY

Title: DATA TRANSMITTING AND RECORDING SYSTEM

Priority: US19530348202 19530413 US19560630382 19561224 US19590845912 19591012
US19570695031 19571107 US19570639447 19570211 US19580764975 19581002

Family:

Publication number	Publication date	Application number	Application date
US2886642 A	19590512	US19530348202	19530413
US2950801 A	19600830	US19570695031	19571107
US3083356 A	19630326	US19560630382	19561224
US3164677 A	19650105	US19590845912	19591012
US3205309 A	19650907	US19570639447	19570211
US3251045 A	19660510	US19580764975	19581002

Probable Assignee: GEN DYNAMICS CORP

Assignee(s):(std): GEN DYNAMICS CORP ; GEN DYNAMICS CORP

Assignee(s): GENERAL DYNAMICS CORP ; GENERAL DYNAMICS CORP

Inventor(s):(std): CONFELD JAMES D ; FOOTE HOWARD L ; GLEASON HOWARD S ; MORRIS FRANK A

International class (IPC 8-9): G06K1/12 G06Q30/00 G06Q30/04 G06Q50/06 H04M15/04 H04M15/38 (Advanced/Invention); G06K1/00 G06Q30/00 H04M15/04 H04M15/38 (Core/Invention)

International class (IPC 1-7): B41J3/44 H04M15/04 H04M15/16

CPC: G06K1/125 G06Q30/04 H04M15/04 H04M15/38 G06Q50/06

European class: G06F17/60B8 G06K1/12C G06Q30/04 G06Q50/06 H04M15/04 H04M15/38

US class: 340/870.11 340/870.27 346/33R 360/39 360/52 360/63 365/166 365/73 379/111 379/116 379/120 379/124 379/126 400/69 400/70 705/412

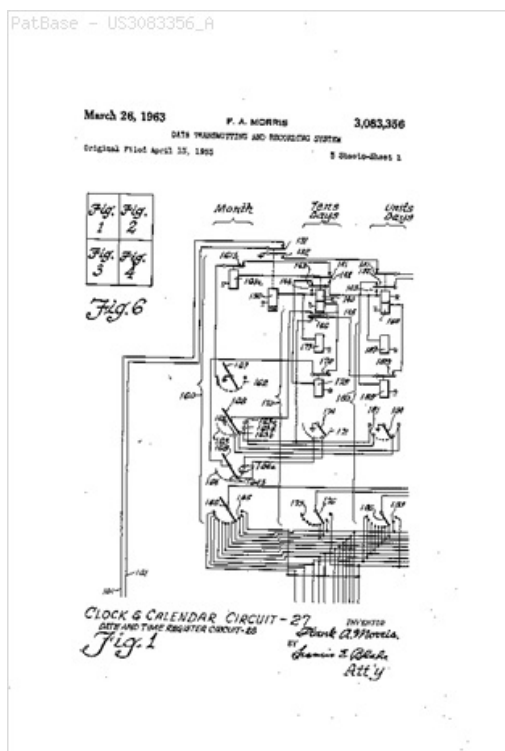
[Classification Explorer](#)

Cited documents: US2901734 A, US2865563 A, US2851676 A, US2850571 A, US2819841 A, US2794070 A, US2782257 A, US2780408 A, US2767246 A, US2764634 A, US2761621 A, US2749535 A, US2749386 A, US2740836 A, US2736006 A, US2724741 A, US2723311 A, US2709041 A, US2698880 A, US2692551 A, US2690474 A, US2689950 A, US2680155 A, US2668931 A, US2656460 A, US2651718 A, US2636672 A, US2629861 A, US2629016 A, US2603715 A, US2596308 A, US2594731 A, US2594495 A, US2587014 A, US2581287 A, US2562717 A, US2549769 A, US2543983 A, US2540654 A, US2540442 A, US2535512 A, US2531622 A, US2522000 A, US2513112 A, US2484612 A, US2437118 A, US2404654 A, US2355903 A, US2316238 A, US2313752 A, US2300829 A, US2289745 A, US2273165 A, US2253596 A, US2112375 A, US1917008 A, US1282992 A,

Forward Citations: USB545050, US5864831, US4264956, US4041291, US3982073, US3372240, US3304416, US3302184, US3294911, US3284777, US3250367, US3243581, US3202999, US3178513, US3171895, US3160709, US3157743, US3146650, US3102166, US3087020, US3068320, US3051789, US3047664, US3019295, US3007007, US3003035, US3001020, US2984703, US2981806,

Abstract:

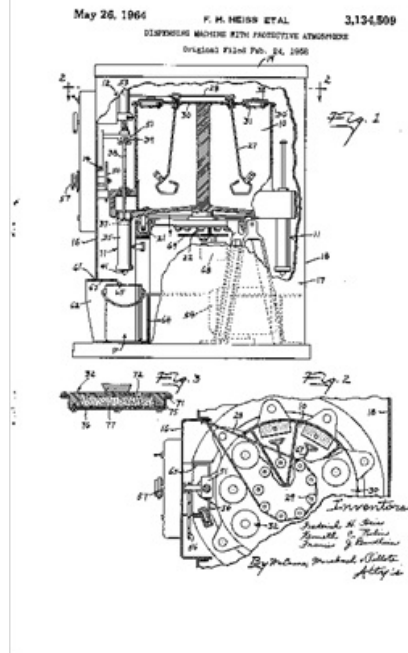
Source: US3083356A (Claim 1) 1. In a sign-alin.- system of the type including a signalin.- channel, a plurality of data storing registers, signaling means for transmittiing successive groups of data si,-nals separated by control signals under the control of said data storing registers, steering means for sequentially rendering said data storin- registers effective to control the operation of said signaling n-leans, signal directing means connected to said si.-naling means for supplying said data and control si-nals to said signaling channel, and control means operated following tl-ic transn-iission of each group of data signals for operating said signal directing mcans to prevent data signals from bein.- supplied to said channel and to enable control si.-nals to be transmitted to said channel.



Title:	Dispensing machine with protective atmosphere			
Priority:	GB19580028118 19580902 US19610148408 19611030		US19580717017 19580224 US19580763358 19580925	
Family:	Publication number	Publication date	Application number	Application date
	BE576071 A	19590615	BE19590576071	19590224
	DE1130723 B	19620530	DE1959R024897	19590204
	GB862110 A	19610301	GB19580028118	19580902
	NL236425 A	00000000		00000000
	US3029847 A	19620417	US19580763358	19580925
	US3066830 A	19621204	US19580717017	19580224
	US3134509 A	19640526	US19610148408	19611030
Probable Assignee:	VALSPAR CORP			
Assignee(s):(std):	ROCKCOTE PAINT CO ; VALSPAR CORP			
Inventor(s):(std):	JENSEN GILBERT WALTER ; JENSEN GILBERT W ; HEISS FREDERICK HUBERT ; HEISS FREDERICK H ; HAGER CLARENCE HENRY ; HAGER CLARENCE H ; ROLIN KENNETH C ; BAUDHUIN FRANCIS J			
Inventor(s):	KENNETH C ROLIN ; GILBERT W JENSEN ; FREDERICK H HEISS ; FRANCIS J BAUDHUIN ; CLARENCE H HAGER			
International class (IPC 8-9):	B01F13/10 B01F15/00 B01F15/04 B01F7/00 B01J4/00 B44D3/00 B65B3/32 G01F11/02 (Advanced/Invention); B01F15/02 (Advanced/Non-invention); B01F13/00 B01F15/00 B01F15/04 B01J4/00 B44D3/00 B65B3/00 G01F11/02 (Core/Invention); B01F15/02 (Core/Non-invention)			
International class (IPC 1-7):	B44D3/08 B44D3/12 B65B3/32 B65B43/60 B67D B67D5/02 B67D5/04			
CPC:	B01F7/00325 B01F13/1058 B01F15/00461 B01F15/0201 B01F15/0237 B01F15/0462 B01F2215/005 B44D3/003 B65B3/323 B65B3/326 G01F11/021 B01J4/008 B05B15/52			
European class:	B01F13/10G3 B01F15/00B15J B01F15/00L4 B01F15/02B40H B01F15/04H5C B01F7/00B16B6 B01J4/00D B44D3/00B B65B3/32B B65B3/32C G01F11/02B L01F15/02B L01F215/00A60			
US class:	141/104 141/117 141/146 141/284 141/90 222/135 222/144 222/144.5 222/168.5 222/188 222/189.09 222/190 222/235 222/309 222/334 222/383.1 222/478			
Classification Explorer				
Cited documents:	US871353 A, US870196 A, US686296 A, US618219 A, US614000 A, US400487 A, US3029847 A, US2951617 A, US2929416 A, US2867176 A, US2848019 A, US280979 A, US2801031 A, US2787402 A, US2663932 A, US2510231 A, US2498100 A, US2492830 A, US2326359 A, US2317882 A, US2166725 A, US2158774 A, US2043578 A, US1984296 A, US1809813 A, US1490923 A, US1435300 A, US1218888 A, US120531 A, US1186269 A, US1054610 A, US1044382 A, GB767280 A, DE159064 A,			
Forward Citations:	WO8705697, WO16067193, WO10113008, WO10113007, US8684232, US8511518, US7654416, US7597217, US7185789, US7156265, US7014078, US6945690, US6945689, US6782927, US6655555, US5938080, US5762098, US5711458, US5632314, US5445195, US5203387, US5163484, US5129551, US5119973, US5111855, US5083591, US5078302, US5067531, US4967938, US4854354, US4637527, US4096972, US4046287, US3973696, US3762610, US3321108, US3178058, US3176876, US3134509, US3125252, US3122272, US2012018034, US2007062981, US2006283889, US2006278663, US2006261089, US2006231578, US2006169718, US2004103954, ITUD20090064, ITUD20090063, ITBO20100374, FR2340538, EP2395330, EP0391286, DE2719601,			

Abstract:

Source: GB862110A 862,110. Bottling. ROCKCOTE PAINT CO. March 13, 1959 [Sept. 2, 1958], No. 28118/58. Class 125(2). [Also in Group XXVIII] A liquid **dispensing** machine particularly for paint comprises a number of reservoirs 11 mounted on a carrier 10 which is rotatable about an axis 68, and a separate **dispensing** pump 12 associated with each reservoir so that by turning the carrier 10 the pump may be brought into alignment with a driving mechanism 13 which is adapted to reciprocate the pump operating rod 58. When the rod 58 is reciprocated the pump cylinder 48 is supported at the side furthest from the reservoir by a U-shaped member 125. The carrier 10 is rotated manually by a crank, gear and chain drive to the sprocket 167 and is supported at its periphery by wheels 34 disposed on legs 29, horizontal wheels 37 operating to centre the carrier. The cylinder 48 of each pump is screwed to a rigid block 61 which is fixed in a projecting part at the bottom of the reservoir and is perforated at 68 to allow liquid to flow into the pump. The pump piston 53 has a valve 56 which **opens** as the piston is raised and the nozzle 49 of the cylinder has a check valve 52. The piston is reciprocated by a jaw 81 which is movable by the screw and gear mechanism 86, 92 and 93 manually operated by the crank 96 with handle 97. The distance the jaw moves is varied by rotation of a cam plate 105 against which the jaw abuts in its lower position. The block 91 in which the crank is journaled is resiliently held in place by spring 100 arranged to be overcome when a certain pressure (i.e. when the jaw abuts the cam plate) is applied to the crank. The U-shaped member 125 supports the outside of the pump in operation and is mounted at the upper end of a pivoted yoke 127 which straddles the box 23 at the **dispensing** station and is movable into and out of engagement with the pump by a latch lever 136 with handle 142. An interlocking rod extending between the member 125 and the jaw 81 is arranged to prevent movement of the jaw when member 125 is not in operative position and also to prevent this member from being disengaged from its operative position when the jaw is not in its uppermost position. The reservoirs 11 are detachably secured to the carrier 10 and have stirrers 178 and 180 rotated by belt 182a and have a filler **opening** with plug 172 having a vent hole 173 and a **container** for a pad 174a impregnated with a thinning agent and an anti-oxidant. Rollers for wiping the tips of the nozzles after use are incorporated.



Title: THERMOPLASTIC INFORMATION STORAGE SYSTEM

Priority: FR19590813956 19591223 FR19590814363 19591229 FR19610852639 19610214
 US19570698167 19571122 US19580756775 19580825 US19580757081 19580825
 US19600008842 19600215 US19610084424 19610123 US19580783558 19581229
 US19580783584 19581229 US19580782779 19581224 US19580782957 19581224
 US19580764076 19580929 US19630263442 19630307 US19650472749 19650611

Family:	Publication number	Publication date	Application number	Application date
	BE581917 A	19601216	BE19590581917	19590822
	BE581962 A4	19601216	BE19590581962	19590825
	BE581962 R	19601216	BE19590581962	19590825
	BE583115 A4	19600118	BE19590583115	19590929
	BE583115 R	19600118	BE19590583115	19590929
	CH372347 A	19631015	CH19580066459	19581121
	CH380783 A	19640815	CH19590081846	19591214
	CH388383 A	19650228	CH19590081881	19591215
	CH390321 A	19650415	CH19590077300	19590824
	CH427909 A	19670115	CH19590077375	19590824
	CH436391 A	19670531	CH19590078811	19590928
	DE1118819 B	19611207	DE1958G025772	19581121
	DE1412050 A1	19681003	DE19591412050	19591223
	DE1412051 A1	19681003	DE19591412051	19591223
	DE1424012 A1	19690313	DE19591424012	19590820
	DE1424013 A1	19690814	DE19591424013	19590820
	DE1424014 A1	19681010	DE19591424014	19590926
	FR1214398 A	19600408		19581121
	FR1236199 A	19600715	FR19590803391	19590824
	FR1244672 A	19601028	FR19590814129	19591224
	FR1247019 A	19601017	FR19590814319	19591229
	FR1284145 A	19620209	FR19610852639	19610214
	FR76791 E	19611201	FR19590813956	19591223
	FR76997 E	19611229	FR19590814363	19591229
	FR84702 E	19650402	FR19590803455	19590825
	FR84703 E	19650712		00000000
	FR84704 E	19650402	FR19590805898	19590924
	FR84705 E	19650402	FR19600831121	19600624
	GB889271 A	19620214	GB19600040997	19601129
	GB902397 A	19620801	GB19580036014	19581110
	GB913971 A	19621228	GB19590027279	19590810
	GB915082 A	19630109	GB19590028649	19590821
	GB930142 A	19630703	GB19590032659	19590925
	GB941721 A	19631113	GB19590043475	19591222
	GB943015 A	19631127	GB19590040569	19591130
	NL113477 C	00000000		00000000
	NL233494 A	00000000		00000000
	NL242557 A	00000000		00000000
	NL243565 A	00000000		00000000
	NL246886 A	00000000		00000000
	OA612 A	19660715	OA19640050701	19641202
	OA617 A	19660715	OA19640050706	19641202
	SE300234 B	19680422	SE19590007852	19590825
	SE317712 B	19691124	SE19590013914	19590825
	US2985866 A	19610523	US19580764076	19580929
	US2995067 A	19610808	US19580782957	19581224
	US3113179 A	19631203	US19600008842	19600215
	US3120991 A	19640211	US19580757081	19580825
	US3147062 A	19640901	US19610084424	19610123
	US3225335 A	19651221	US19630263442	19630307
	US3281798 A	19661025	US19650472749	19650611

Probable Assignee: GEN ELECTRIC**Assignee(s):(std):** GEN ELECTRIC ; THOMSON HOUSTON COMP FRANCAISE**Assignee(s):** GENERAL ELECTRIC CO ; GENERAL ELECTRIC COMPANY ; CIE FRANCAISE THOMSON HOUSTON ; COMPAGNIE FRANCAISE THOMSON HOUSTON ; FRANCAISE THOMSON HOUSTON COMP ; GEC**Inventor(s):(std):** GLENN W ; HUGHES W ; NORTON JAMES FREDERIC ; WOLFE J ; WOLFE JOHN E ; PRICE NEWBERRY STERLING ; NORTON JAMES F ; NEWBERRY STERLING P ; LAWRENCE HENKES JUN JOHN ; JUN WILLIAM ELLIS GLENN ; HUGHES WILLIAM C ; GLENN WILLIAM E ; GLENN JR WILLIAM E ; FREDERIC NORTON JAMES ; ELLIS GLENN WILLIAM ; ELLIS GLENN JUN WILLIAM ; EDMOND WOLFE JOHN ; CHESLEY HUGHES WILLIAM ; WILLIAM ELLIS JR GLENN ; WILLIAM ELLIS GLENN ; WILLIAM CHESLEY HUGHES ; STERLING PRICE NEWBERRY ; JOHN LAWRENCE JR HENKES ; JOHN EDMOND WOLFE ; JAMES FREDERIC NORTON**Inventor(s):** ELLIS JR GLENN WILLIAM ; ELLIS GLENN JUN ; LAWRENCE JR HENKES JOHN ; JR WILLIAM E GLENN ; STERLING P NEWBERRY ; WILLIAM C HUGHES ; WILLIAM E GLENN ; JAMES F NORTON ; JOHN E WOLFE ; LAWRENCE HENKES JUN**International class (IPC 8-9):** F23R3/00 G03G16/00 G06K1/12 G06K17/00 G11B11/00 G11B11/03 G11B13/00 G11B27/36 G11B7/0045 G11B7/12 G11B7/13 G11B7/135 G11B7/24 G11B9/00 G11B9/10 G11C13/04 H04N5/74 H04N5/80 H04N5/82 H04N9/31 (Advanced/Invention); G06K1/00 G06K17/00 G11C13/04 H04N5/74 H04N5/80 H04N9/31 (Core/Invention)**International class (IPC 1-7):** B41J3/20 G01D5/12 G01D9/30 G03B33/00 G03C1/72 G03G13/00 G06B G06C11/04 G06K1/12 G11B5/09 G11C11/46 G11C13/04 H01J31/24 H03K15/22 H04N5/74 H04N5/80 H04N5/82 H04N9/31

CPC: G03G16/00 G11B7/13 G11B7/1381 G11B9/00 G11B11/00 G11B11/03 G11C13/048 H04N5/74 H04N5/80 G06K17/00 G11B7/0045 G11B7/12 G11B7/24 G11B9/10 G11B13/00 G11B27/36 G11C13/04 F23R3/00 Y10S264/67 Y10S430/143 H04N5/82 H04N5/7425 G06K1/126

European class: 116A4D2 116A6B8 116A6M2 42G11A 42M37G2 F23R3/00 G03G16/00 G06K1/12D G06K17/00 G11B11/00 G11B11/03 G11B13/00 G11B27/36 G11B7/0045 G11B7/12 G11B7/13 G11B7/1381 G11B7/24 G11B9/00 G11B9/10 G11C13/04 G11C13/04F H04N5/74 H04N5/74M2 H04N5/80 H04N5/82

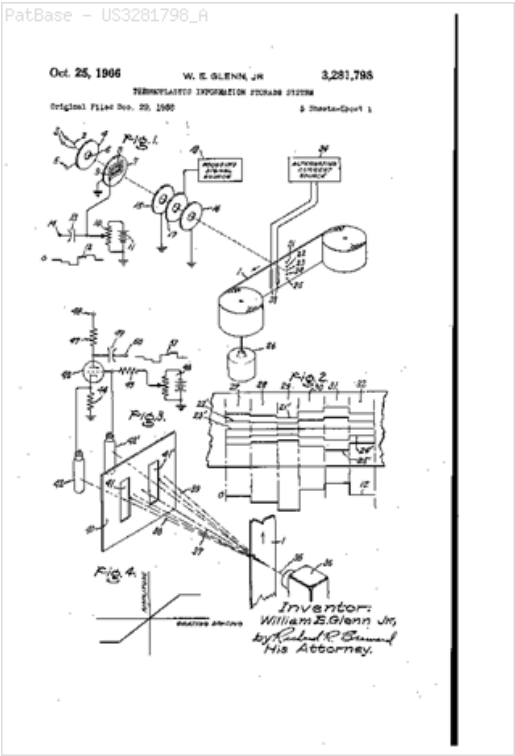
US class: 264/DIG.67 313/465 346/135.1 346/77.00E 346/77.00R 346/77E 346/77R 347/113 347/115 347/121 348/764 348/774 348/E05.137 348/E05.14 348/E09.027 348/E5.137 348/E5.14 348/E9.027 353/20 359/291 359/292 365/126 369/112.05 369/17 386/1 386/127 386/131 386/30 386/313 386/314 386/38 386/E05.055 386/E05.057 386/E5.055 386/E5.057 386/E50.57 430/19 430/21 430/296 430/50 430/942 G9B/007.010 G9B/007.097 G9B/007.102 G9B/007.111 G9B/007.124 G9B/007.139 G9B/009.025 G9B/011.004 G9B/013 G9B/027.052 G9B/11.004 G9B/13 G9B/27.052 G9B/7.01 G9B/7.097 G9B/7.102 G9B/7.111 G9B/7.124 G9B/7.139 G9B/9.025

[Classification Explorer](#)

Cited documents: USRE22734 E, US2985866 A, US2919302 A, US2916621 A, US2898467 A, US2880268 A, US2861166 A, US2858181 A, US2853357 A, US2813146 A, US2776339 A, US2748288 A, US2707162 A, US2704265 A, US2674728 A, US2644938 A, US2630484 A, US2605352 A, US2449752 A, US2391451 A, US2391450 A, US2281637 A, US1891780 A, GB752100 A, GB384258 A, CH230613 A, CH187229 A,

Forward Citations: WO9917286, WO8801424, US8815160, US8536087, US7944183, US7187515, US7153366, US7029726, US6980390, US6940676, US6288995, US5307332, US5231432, US4868808, US4856108, US4839882, US4760567, US4599718, US4480003, US4380769, US4252601, US4223062, US4218688, US4188433, US4160269, US4085501, US4082438, US4074313, US4041532, US4040089, US4025731, US4015248, US4010318, US3957354, US3952146, US3919465, US3908192, US3906462, US3866187, US3732363, US3729252, US3728014, US3719951, US3711183, US3657707, US3655371, US3653888, US3626084, US3618048, US3598901, US3549238, US3549237, US3547628, US3535417, US3535413, US3525613, US3497762, US3430255, US3419885, US3413146, US3391255, US3382780, US3372383, US3362017, US3360784, US3355308, US3351920, US3341856, US3341855, US3335413, US3333958, US3328776, US3328111, US3325789, US3322540, US3317315, US3314052, US3311903, US3308444, US3291907, US3291601, US3287735, US3286025, US3284196, US3283310, US3281257, US3276031, US3274565, US3273999, US3263115, US3262122, US3261022, US3258336, US3247493, US3245053, US3239841, US3239602, US3238041, US3234381, US3227805, US3226696, US3214272, US3213429, US3210466, US3196011, US3196010, US3196009, US3196008, US3195397, US3181172, US3169061, US3167747, US3154369, US3142585, US3131019, US3121216, US3120991, US3118787, US3118786, US3118785, US2757572, US2011200487, US2010215547, US2009212625, JP48014912, GB2316162, GB2316162, FR2318482, FR2318480, FR2197495, FR2197495, EP0033240, DE2759957, DE2602790, DE2463376, DE1292700, DE1276727, DE1269641, DE1238504, DE1203130, DE1181275, DE1129986,

Abstract:
Source: GB889271A 889,271. Generating combustion products under pressure. GENERAL ELECTRIC CO. Nov. 29, 1960 [Dec. 14, 1959], No. 40997/60. Class 51 (1). [Also in Group XI] A pilot burner 18 for the after-burner of a gas turbine engine comprises a fuel supply pipe 21 extending transversely into the hot combustion gas stream in the after-burner and an **open**-ended tubular member 24 of cardioidal cross-section disposed at the discharge end of the fuel supply pipe 21 and arranged with its longitudinal axis parallel to the hot combustion gas stream. The fuel pipe 21 directs the fuel towards the cusp of the cardioidal cross-section. The flow of combustible gas through the tubular member forms with the fuel a pair of spiralling vortices which are directed into a liner 16 in the after burner casing 13. The main supply of fuel is provided by spray bars 17. An annular flame holder 32 comprising four scoop sections is provided.

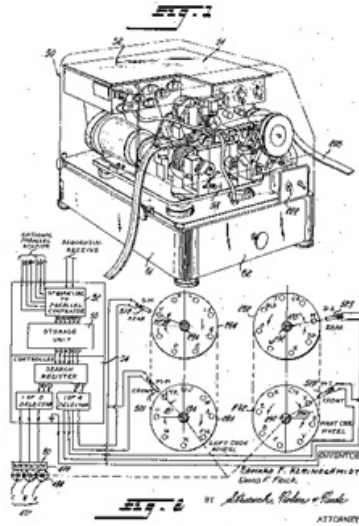


Title:	ELECTRONIC RECEIVER-CONTROLLER WITH STORAGE UNIT																																																																			
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Family:	<table><thead><tr><th>Publication number</th><th>Publication date</th><th>Application number</th><th>Application date</th></tr></thead><tbody><tr><td>AU5969060 A1</td><td>19601027</td><td>AU19600059690</td><td>19600422</td></tr><tr><td>DE1135517 B</td><td>19620830</td><td>DE1960S068208</td><td>19600423</td></tr><tr><td>DE1149740 B</td><td>19630606</td><td>DE1960S074773</td><td>19600423</td></tr><tr><td>DE1159498 B</td><td>19631219</td><td>DE1960S074878</td><td>19600423</td></tr><tr><td>DE1159998 B</td><td>19631227</td><td>DE1960S074834</td><td>19600423</td></tr><tr><td>FR1283837 A</td><td>19620209</td><td>FR19600825155</td><td>19600423</td></tr><tr><td>GB945603 A</td><td>19640102</td><td>GB19600013958</td><td>19600421</td></tr><tr><td>GB945604 A</td><td>19640102</td><td>GB19620010992</td><td>19600421</td></tr><tr><td>GB945605 A</td><td>19640102</td><td>GB19620010993</td><td>19600421</td></tr><tr><td>GB945606 A</td><td>19640102</td><td>GB19620010994</td><td>19600421</td></tr><tr><td>GB945607 A</td><td>19640102</td><td>GB19620010995</td><td>19600421</td></tr><tr><td>US3150235 A</td><td>19640922</td><td>US19590829446</td><td>19590724</td></tr><tr><td>US3232596 A</td><td>19660201</td><td>US19630325705</td><td>19631122</td></tr><tr><td>US3264409 A</td><td>19660802</td><td>US19630325735</td><td>19631122</td></tr><tr><td>US3359368 A</td><td>19671219</td><td>US19630325718</td><td>19631122</td></tr></tbody></table>				Publication number	Publication date	Application number	Application date	AU5969060 A1	19601027	AU19600059690	19600422	DE1135517 B	19620830	DE1960S068208	19600423	DE1149740 B	19630606	DE1960S074773	19600423	DE1159498 B	19631219	DE1960S074878	19600423	DE1159998 B	19631227	DE1960S074834	19600423	FR1283837 A	19620209	FR19600825155	19600423	GB945603 A	19640102	GB19600013958	19600421	GB945604 A	19640102	GB19620010992	19600421	GB945605 A	19640102	GB19620010993	19600421	GB945606 A	19640102	GB19620010994	19600421	GB945607 A	19640102	GB19620010995	19600421	US3150235 A	19640922	US19590829446	19590724	US3232596 A	19660201	US19630325705	19631122	US3264409 A	19660802	US19630325735	19631122	US3359368 A	19671219	US19630325718	19631122
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Probable Assignee:	SCM CORP																																																																			
Assignee(s):(std):	SCM CORP ; SMITH CORONA MARCHANT ; SMITH CORONA MARCHANT INC																																																																			
Assignee(s):	SMITH CORONA MARCHENA INC																																																																			
Inventor(s):(std):	KLEINSCHMIDT EDWARD F ; FRICK DAVID F ; CLARK CLAYTON H ; CHINLUND JOSEPH F ; ANDERSON HILDING A																																																																			
Inventor(s):	EDWARD F KLEINSCHMIDT HILLINGS ANDERSON DAVID F FRICK CLAYTON HUI CLARK AND JOSEPH F CHINLUND																																																																			
International class (IPC 8-9):	B41J33/22 B41J33/388 B41J33/518 B41J5/30 G01D15/04 H03M1/00 H04L13/02 H04L13/06 H04L13/18 H04L15/32 H04L17/16 H04L17/20 H04L17/26 H04L17/30 (Advanced/Invention); B41J33/14 H03M1/00 H04L13/00 H04L13/02 H04L17/00 (Core/Invention)																																																																			
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Forward Citations:	US4060029, US3585279, US3493938,																																																																			

Abstract:

Source: GB945605A 945,605. Printing - telegraph receivers. SMITH-CORONA MARCHANT Inc. April 21, 1960 [July 24, 1959], No. 10993/62. Divided out of 945,603. Drawings to Specification. Heading H4P. Apparatus for step-by-step feeding of a flat message-medium having a sequence of feedholes thereon comprises a driving means and a friction clutch with a feed-wheel and holding member formed as a unit and mounted for rotation on a shaft generally coaxial with the rotational axis of the friction clutch, a torsional shaft drive connected between the friction clutch and the unitary feed-wheel and holding member, and a selectively releasable holding or detent device co-operating with the holding member to effect step-by-step feed movement of the feed-wheel and holding member under the action of torsional bias applied through the torsion shaft. The apparatus is used in the high-speed teleprinter receiving apparatus, described in Specification 945,603, in which the received coded signals selectively operate code rods having interference flanges which through transfer members control actuating members effecting punching of a tape, printing of a character and release of the feed movement of the tape. The description is wholly included in the above-mentioned Specification.

Dec. 19, 1967 E. F. KLEINSCHMIDT ET AL 3,359,368
ELECTRONIC ADDRESS-CONTROLLED VIBRO STORAGE UNIT
Original Filed July 24, 1969 18 Sheets-Sheet 1



Title: CONTROL OF UNDESIRABLE VEGETATION

Priority:

CH19600009213 19600813	CH19620014499 19621211	CH19660009234 19621211
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Probable Assignee: DU PONT

Assignee(s):(std): DU PONT ; E I DU PONT DE NEMOURS AND CO US ; E I PONT DE NEMOURS AND COMPAN ; PONT DU CO

Assignee(s): E I PONT DE NEMOURS AND COMPANY ; E I DU PONT DE NEMOURS AND COMPANY ; EDWARD J SOBOCZENSKI ; EI DU PONT DE NEMOURS AND CO ; HARVEY M LOUX ; E I DU PONT DE NEMOURS AND CO WILMINGTON DEL V ST ; E I DU PONT DE NEMOURS AND CO WILMINGTON DEL V ST A ; E I DU PONT DE NEMOURS AND CO

Inventor(s):(std): ELLIS LINUS MARVIN ; LOUX HARVEY MONROE ; LUCKENBAUGH RAYMOND WILSON ; SOBOCZENSKI EDWARD JOHN ; WILSON LUCKENBAUGH RAYMOND ; SOBOCZENSKI EDWARD J ; SOBOCZENSKI E US ; SOBOCZENSKI E J ; SOBOCZENSKI E ; MONROE LOUX HARVEY ; LUCKENBAUGH R W ; LUCKENBAUGH R US ; LUCKENBAUGH R ; LOUX HARVEY M ; LOUX H US ; LOUX H M ; LOUX H ; JOHN SOBOCZENSKI EDWARD ; ELLIS L ; E I DU PONT DE NEMOURS AND COM ; SABOCZENSKI E ; RAYMOND WILSON LUCKENBAUGH ; LOUSC H ; LINUS MARVIN ELLIS ; HARVEY MONROE LOUX ; EDWARD JOHN SOBOCZENSKI

Inventor(s): EDWARD J SOBOCZENSKI ; HARVEY M LOUX ; MARVIN ELLIS LINUS ; E I DU PONT DE NEMOURS AND CO ; E I DU PONT DE NEMOURS AND COMPANY ; LOUX HARVEY MONROE HOCKESSIN ; LUCKENBAUGH RAYMOND WILSON WILMINGTON ; SOBOCZENSKI EDWARD JOHN CHADD S FORD PA

International class (IPC 8-9): C01D15/04 C01F11/20 C07C275/26 C07D239/02 C07D239/22 C07D239/28 C07D239/46 C07D239/54 C07D239/553 C07D239/56 C07D239/70 C07D239/96 C07D401/04 C07F9/6512 (Advanced/Invention); C01D15/00 C01F11/00 C07C275/00 C07D239/00 C07D401/00 C07F9/00 (Core/Invention); A01N (Subclass/Invention)

International class (IPC 1-7): A01N19/02 A01N43/54 A01N43/64 A01N5/00 A01N7/04 A01N9/22 C07C153/05 C07D239/22 C07D239/28 C07D239/46 C07D239/47 C07D239/54 C07D239/55 C07D239/56 C07D239/70 C07D239/96 C07D51/30

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[Classification Explorer](#)

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Forward Citations: WO9600501, WO9504461, WO8911481, WO17075559, WO17074992, WO17062729, WO16196606, WO16196280, WO16196019, WO16182780, WO16164201, WO16149311, WO16144678, WO16144351, WO16033285, WO16014814, WO16010731, WO16003997, WO15171392, WO15168010, WO15167795, WO15157005, WO15134256, WO15130893, WO15130890, WO15123193, WO15108779, WO15089003, WO15084796, WO15077436, WO15026646, WO14172191, WO14172190, WO14159306, WO14143620, WO14138490, WO14130409, WO14130241, WO14066164, WO14014904, WO14004064, WO13192126, WO13192035, WO13191866, WO13173218, WO13158422, WO13126283, WO13116251, WO13063282, WO13055584, WO13003678, WO12148622, WO12122171, WO12106495, WO12092115, WO12087630, WO12087372, WO12082580, WO12071040, WO12071039, WO12054233, WO12044650, WO12033548, WO12031061, WO12030922, WO12024586, WO12012366, WO11149749, WO11146182, WO11137088, WO11087837, WO11085170, WO11059619, WO11056463, WO11051958, WO11031658, WO11017351, WO11017347, WO11017342, WO11017334, WO11017261, WO10101973, WO10093595, WO10065579, WO08091580, WO08002872, WO06055922, WO03079788, US8598087, US6545033, US6518266, US6506784, US6409988, US6344460, US6037349, US5798364, US5726124, US5637621, US5391541, US5346881, US5310723, US5183492, US5149810, US5104878, US5077297, US5017211, US4859229, US4812164, US4400508, US4358606, US4280999, US4239888, US4189366, US4146531, US4111681, US4046803, US3998830, US3991515, US3981715, US3961936, US3948635, US3931171, US3914230, US3914122, US3909236, US3909234, US3869275, US3864116, US3719467, US3632333, US3628942, US3539333, US3532699, US3506434, US3480631, US3471282, US3464989, US3462435, US3462257, US3436207, US3424571, US3412139, US3406023, US3397050, US3374083, US3352662, US3342581, US3330640, US3300292, US3291592, US3274196, US3227541, US2016205934, US2010062941, US2010056477, LT3522, JP2008069137, JP2001316375, FR2590767, FR2498894, FR2446500, FR2177869, FR2103103, EP3239137, EP3222618, EP3067425, EP2966063, EP2792360, EP2679583, EP2564706, EP2559687, EP2532240, EP2532239, EP2532238, EP2532237, EP2532236, EP2529624, EP2529623, EP2430921, EP2430920, EP2402332, EP2380987, EP2360157, EP2281458, EP2274981, EP2274980, EP2266402, EP2266401, EP2264022, EP2263461, EP2263460, EP2263459, EP2263458, EP2260705, EP2260704, EP2260703, EP2258191, EP2258190, EP2090166, EP2060182, EP2060181, EP2060180, EP2060179, EP2052608, EP1796465, EP1778012, EP1771070, EP1700845, EP1435785, EP1427285, EP1423379, EP1417176, EP1389190, EP0580932, EP0516194, EP0516190, EP0393911, EP0354179, EP0336587, EP0299413, EP0271208, EP0262344, EP0235449, EP0209230, EP0205348, EP0176304, DE1299927, DE102008037631,

Abstract:
Source: US2335360A 3-Substituted uracils of the isomeric formulae: or where R1 is a covalent organic radical of molecular weight 15-250 which is C1- 10 alkyl, substituted C1- 3 alkyl, phenyl which may be substituted, C7-8 aralkyl, C7- 12 substituted aralkyl, C3-6 alkenyl, propynyl, butynyl, C5-8 cycloalkyl or cycloalkenyl, or cyano; R2 is hydrogen, halogen, C1-4 alkyl, C1-3 alkoxy NO2, C2-4 alkoxy-methyl, hydroxymethyl, hydroxyethyl, allyl, thiocyanato, cyano, halogenomethyl or methylthiomethyl; R3 is hydrogen, chlorine, C1-5 alkyl, methoxy or ethoxy; or R2 and R3 together make up a bridge of formula (CH2)n where n is 3, 4 or 5; and X is oxygen or sulphur; with the proviso that if R2 is hydrogen, then either R3 is C1-5 alkyl and R1 is C3-6 alkyl, allyl, propynyl or C5-8 cycloalkyl or cycloalkenyl; or R3 is hydrogen and R1 is C5-8 cycloalkyl or cycloalkenyl; are prepared by heating a urea R1NH.CX.NH2 with an ester R1OCOCHR2.COR3 (where R1 is C1-6 alkyl) in the presence of an acidic compound and under substantially anhydrous conditions to produce a compound R1NHCXNHC(R3)=CR2COOR1, and heating this under substantially anhydrous conditions in the presence of a strong base to effect ring **closure** to give a metal salt (the metal being that of the base) of the compound of the above formula; and acidifying to obtain the free uracil. Novel compounds. The following groups of compounds of the above general formula are claimed as novel: (i) those in which R1 is C5-8 cycloalkyl or cycloalkenyl, or a group -CR5R6R7, where R5 is hydrogen or methyl, R6 is methyl or ethyl, and R7 is C1-5 alkyl; R2 is chlorine or bromine and R3 is methyl; (ii) those in which R1 is C5-8 cycloalkyl or cycloalkenyl, R2 is hydrogen and R3 is C1-5 alkyl; (iii) those in which R1 is as defined in (i) above, and R2 and R3 together make up (CH2)n, where n is 3, 4 or 5; and (iv) those in which R1 is phenyl or substituted phenyl or C5-8 cycloalkyl or cycloalkenyl, R2 is halogen or methyl or nitro, and R3 is hydrogen; and metal salts thereof. Other preparative methods, used in examples are the halogenation of compounds with R2=H to give R2 as chlorine or bromine; nitration of compounds with R2=H to give R2 as NO2; reactions of compounds with R2=H with lead thiocyanate and bromine to give R2 as thiocyanato; reaction of R1NH.CX.NH2 with diethyl oxalacetate or a -substituted oxalacetate followed by acidification (giving e.g. 3-cyclo-hexyluracil-6-carboxylic acid and 3-cyclohexyl-5-methyluracil-6-carboxylic acid) and decarboxylation, giving compounds with R1 in the 3-position, H or the a -substituent in the 5-position (R2) and R3 as hydrogen; reaction of a urea or thiourea substituted by R1 with an alkyl 2-cycloalkanone-1-carboxylate, (giving e.g. 2-(3-methylureido)-1-cyclopentene carboxylic acid ethyl ester) followed by reaction with a base and acidification, giving R2 and R3 as tri-, tetra- or pentamethylene; reaction of compounds with R2=H with formaldehyde to give 5-hydroxymethyl compounds or with chloromethyl

methyl ether to give 5-chloromethyl compounds, or converting 5-hydroxymethyl to 5-chloromethyl with thionyl chloride; reaction of 5-chloromethyl compounds with alkoxides or methyl-mercaptides to give R2 as alkoxymethyl or methylthiomethyl; reaction of R1NCO with R3C(NH2)=CHCOOC2H5 followed by ring closure with a base and then acidification; formation of alkali metal salts by reacting a uracil compound with an alkali metal methoxide in alcohol; and formation of other metal salts by metathesis. Many examples are given. The uracils of the formula given are herbicides (see Division A5). Specifications 492,742, 677,342, 968,662, 968,663, 968,664 and 968,665 are referred to. ALSO: Herbicidal compositions comprise at least one compound of the isomeric formul or where R1 is a covalent organic radical of molecular weight 15-250 which is C1-10 alkyl, substituted C1-3 alkyl, phenyl which may be substituted C7-8 aralkyl, C7-12 substituted aralkyl, C3-6 alkenyl, propynyl, butynyl, cyano or C5-8 cycloalkyl or cycloalkenyl; R2 is hydrogen, halogen, C1-4 alkyl, C1-3 alkoxy, NO2, C2-4 alkoxymethyl, hydroxymethyl, hydroxyethyl, allyl, thiocyanato, cyano, halogenomethyl or methylthiomethyl; R3 is hydrogen, chlorine, C1-5 alkyl, methoxy or ethoxy; or R2 and R3 together make up a bridge of formula (CH2)n, where n is 3, 4 or 5; and X is oxygen or sulphur; with the proviso that if R2 is hydrogen, then either R3 is C1-5 alkyl and R1 is C3-16 alkyl, allyl, propynyl or C5-8 cycloalkyl or cycloalkenyl; or R3 is hydrogen and R1 is C5-8 cycloalkyl or cycloalkenyl; or a metal salt of such a compound (see Division C2), associated with (i) a diluent which is at least in part an oil (see below); (ii) a diluent which is at least in part a solid; (iii) a diluent which is a liquid other than an oil (such as water) and a surface active agent; or (iv) a surface active agent. The invention also comprises a method of controlling the growth of weeds at a locus which comprises applying to the locus a herbicidally effective quantity of a compound of the above formula or a metal salt thereof, if desired in the form of a composition as defined. The subject-matter of Specifications 968,663, 968,664, 968,665 and 968,662 is disclaimed. An oil is defined as a liquid immiscible with water and soluble in ether, and which boils at not below 125 DEG C. Suitable oils are aliphatic and aromatic hydrocarbons, e.g. hydrocarbons of petroleum origin. Suitable solid diluents are talc, natural clay, pyrophyllite, diatomaceous earth, synthetic fine silica, calcium silicate, magnesium and calcium carbonates, calcium phosphates, sulphur, lime, and flours such as those of walnut shell, wheat, redwood, soya-bean and cottonseeds. Binders used for granular or pellet compositions include goulac, dextrin, swollen starch, glue and polyvinyl alcohol. Conventional additives such as gelatin, blood, albumin, rosin and alkyd resins may also be added. Compositions may also contain other herbicides, such as 2,3,6-trichlorobenzoic acid and salts, 2,3,5,6-tetrachlorobenzoic acid and salts, 2-chloro-N,N-diallylacetamide, N,N-dipropylthiocarbamic acid ethyl ester, 2,2-dichloropropionic acid and salts, methylarsonic acid and salts, borates, chlorates, ammonium sulphamate, 2,4-dichlorophenoxyacetic acid, 2,4,5-trichlorophenoxyacetic acid, N-phenyl carbamic acid isopropyl ester, N-(m-chlorophenyl) carbamic acid isopropyl ester, trichloroacetic acid, maleic hydrazide, 1,1-dimethyl - 3 - (3,4 - dichlorophenyl)urea, 1,1-dimethyl - 3 - (p - chlorophenyl)urea, 1,1-dimethyl - 3 - phenylurea, 1 - n - butyl - 1 - methyl - 3 - (3,4 - dichlorophenyl)urea, 1-methoxy - 1 - methyl - 3 - (3,4 - dichlorophenyl) urea, 1 - methoxy - 1 - methyl - 3 - (p - chlorophenyl)urea, 1,1,3 - trimethyl - 3 - (3,4 - dichlorophenyl)urea, 2 - chloro - 4,6 - bis-(ethylamino) - s - triazine, 2 - chloro - 4 - ethylamino - 6 - isopropylamino - s - triazine, 2-chloro - 4,6 - bis - (methoxypropylamino) - s-triazine, 2 - methoxy - 4,6 - bis - (isopropylamino) - s - triazine, 2,4 - bis - (isopropylamino) - 6 - methoxy - s - triazine, dinitro - secbutylphenol, 2,3,6 - trichlorophenylacetic acid, 5,6 - dihydro - (4A, 6A) - dipyrido-(1,2-A, 21,1-C)-pyrazinium dibromide and 2,6-dichlorobenzonitrile. Other materials employed in specific examples include methyl isobutyl ketone, dibutyl ketone, Na2SO4, Na2HPO4 and sodium pentachlorophenate. Specifications 492,742 and 677,342 also are referred to.



Title: AUTOMATIC HEAT REQUIREMENT REGULATOR FOR AUTOMATIC CHANGE-OVER SYSTEM FOR BLAST STOVES FOR BLAST FURNACES

Priority: 19590716 FR19600843924 19601115 LU19600039421 19601116
US19590853337 19591116 US19590853365 19591116 US19590853357 19591116
US19600057926 19600930 US19600072268 19601109 US19600027633 19600509
US19600031328 19600524 US19600054621 19600908 US19600057926 19600923
US19600060372 19601004 US19600062647 19601014

Family:	Publication number	Publication date	Application number	Application date
	BE597093 A	19610315	BE19600597093	19601116
	CH367752 A	19630228	CH19600012830	19601116
	DK104219 C	19660418	DK19600004536	19601116
	ES262521 A1	19610301	ES19600262521	19601116
	FR1285258 A	19620223	FR19600843924	19601115
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	LU39421 A	19610116		19601116
	NL257987 A	00000000		00000000
	US3022930 A	19620227	US19590853365	19591116
	US3024959 A	19620313	US19590853337	19591116
	US3039668 A	19620619	US19600054621	19600908
	US3040950 A	19620626	US19600027633	19600509
	US3040951 A	19620626	US19600057926	19600923
	US3051465 A	19620828	US19590853357	19591116
	US3081016 A	19630312	US19600031328	19600524
	US3097574 A	19630716	US19600072268	19601109
	US3107038 A	19631015	US19600062647	19601014

Probable Assignee: AMERICAN CAN CO

Assignee(s):(std): AMERICAN CAN CO ; ZIMMERMANN AND JANSEN GMBH

Assignee(s): AMERICAN CAN COMPANY ; ZIMMERMANN AND JANSEN GES MIT BESCHRANKTER HAFTUNG ; ZIMMERMANN AND JANSEN GESELLSCHAFT MIT BESCHRANKTE ; ZIMMERMANN AND JANSEN GESELLSCHAFT MIT BESCHRANKTER HAFTUNG

Inventor(s):(std): HERMANN JANSEN ; LUDWIG WALTHER ; MORRIS WILLIAM KUCHENBECKER ; KUCHENBECKER MORRIS WILLIAM ; KUCHENBECKER MORRIS W

Inventor(s): WALTHER LUDWIG ; WILLIAM KUCHENBECKER MORRIS ; JANSEN HERMANN

International class (IPC 8-9): B31B50/00 B31B7/00 B65D5/06 C21B9/12 (Advanced/Invention);
B31B120/10 (Advanced/Non-invention);
B31B7/00 B65D5/02 C21B9/00 (Core/Invention);
B65D (Subclass/Invention)

International class (IPC 1-7): B31B B31B7/00 B31B7/60 B65D B65D5/06 B65D5/70 C21B9/00

CPC: C21B9/12 B65D5/062 B31B2105/001 B65D5/068 Y10S493/907

European class: B31B7/00 B65D5/06B1 B65D5/06D1 C21B9/12 L31B217/00D

US class: 229/117.12 229/214 229/217 229/219 229/234 229/915.1 432/216 432/40 493/282 493/297 493/907

[Classification Explorer](#)

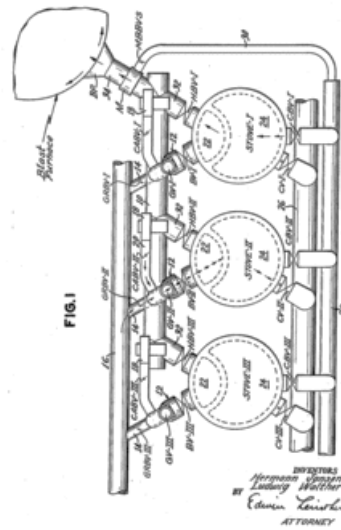
Cited documents: USD173718 S1, USD173640 S1, US2984161 A, US2959336 A, US2931635 A, US2820585 A, US2819832 A, US2801782 A, US2801577 A, US2751137 A, US2750095 A, US2730289 A, US2730288 A, US2702152 A, US2695745 A, US2687840 A, US2661141 A, US2654525 A, US2634897 A, US2634046 A, US2470388 A, US2423804 A, US2411349 A, US2382573 A, US2375632 A, US2360439 A, US2326269 A, US2321139 A, US2300703 A, US2279359 A, US2196243 A, US2176912 A, US2158097 A, US2132925 A, US2097647 A, US1816174 A, US1699008 A, US1603158 A, US1157462 A, SE95342 C1, GB562966 A, DE607192 A,

Forward Citations: WO9509107, WO8204025, US9409672, US8118198, US7325719, US7044305, US6092659, US5685479, US5326024, US5230463, US5118036, US4911306, US4802590, US4546884, US4457431, US4442970, US4166566, US4085885, US3924800, US3754456, US3640188, US3598023, US3590699, US3589594, US3297229, US3294310, US3261267, US3217966, US3183800, US3180629, US3164315, US3162349, US3118586, US2013196277, US2013098978, US2010155279, US2007170233, US2005167319, US2004169066, GB2466494, GB2253611, FR2508869, EP1322733, EP0278625, EP0197614, EP0077001, EP0000374, DE4015119, AU680943,

Abstract:

Source: US3051465A (Claim 1) 1. in a blast furnace installation having three hot blast stoves and adapted to be selectively operated either in a first condition in which all three stoves are utilized and changed over automatically, in a second condition in which two of the three stoves are utilized and changed over automatically, or in a third condition in which each of the stoves is automatically operated independently of the others, and having means for producing an electrical output signal proportional to the required load for said blast furnace installation; the improvement comprising means for automatically distributing the heat load for providing the required blast furnace load among said stoves for each of said three conditions, said distributing means comprising an electrically operated gas volume regulator means for each stove, means electrically connecting said output signal to each of said gas volume regulating means, and means for automatically interrupting said electrical connecting means to each gas volume regulator means when said installation is not operating in said first condition, whereby to automatically transmit said output signal only when the installation is operating in said first condition, for equally distributing said heat load among the stoves when the installation is operating in said first condition.

Aug. 28, 1962 H. JANSEN ET AL 3,051,465
AUTOMATIC HEAT REQUIREMENT REGULATOR FOR AUTOMATIC CHARGE-OVER
SYSTEM FOR BLAST STOVES FOR BLAST FURNACES
Filed Nov. 18, 1959 5 Sheets-Sheet 1

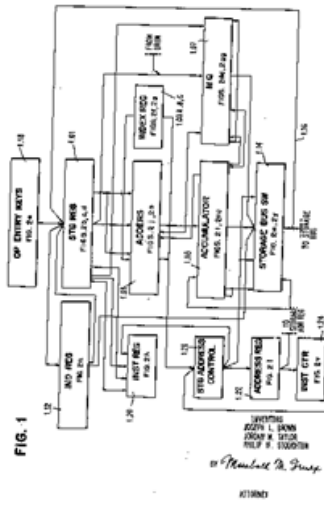


Title:	FAST MULTIPLY APPARATUS IN AN ELECTRONIC DIGITAL COMPUTER			
Priority:	FR19580782446 19581223	US19570705442 19571226	US19570705444 19571226	
	US19570705445 19571226	US19570705446 19571226		
Family:	Publication number	Publication date	Application number	Application date
	FR1290809 A	19620420	FR19580782446	19581223
	GB875695 A	19610823	GB19580041505	19581223
	US3019976 A	19620206	US19570705444	19571226
	US3034720 A	19620515	US19570705446	19571226
	US3036773 A	19620529	US19570705445	19571226
	US3048333 A	19620807	US19570705442	19571226
Probable Assignee:	IBM			
Assignee(s):(std):	IBM			
Assignee(s):	INT BUSINESS MACHINES CORP			
Inventor(s):(std):	BROWN JOSEPH L ; STOUGHTON PHILIP N ; TAYLOR JORDAN M			
International class (IPC 8-9):	G06F15/78 G06F7/52 (Advanced/Invention); G06F15/76 G06F7/48 (Core/Invention)			
International class (IPC 1-7):	G06F11/04 G06F7/52			
CPC:	G06F7/5272 G06F15/78			
European class:	G06F15/78 G06F7/527A G06F7/52C2B1			
US class:	235/137 341/106 708/204 708/627 711/220 712/234			
Classification Explorer				
Cited documents:	US2916210 A, US2914248 A, US2846142 A, US2815168 A, US2800277 A, US2799449 A, US2796219 A, US2796218 A, US2792991 A, US2776794 A, US2767908 A, US2719670 A, GB749836 A, GB745907 A, GB745833 A, FR1099467 A,			
Forward Citations:	US6650317, US4674039, US4611307, US4485455, US4476541, US4471460, US4038640, US3774166, US3760370, US3614746, US3611304, US3568162, US3523282, US3454933, US3454931, US3444527, US3440618, US3412382, US3389380, US3378819, US3343138, US3328767, US3315233, US3311888, US3311887, US3311739, US3299261, US3258748, US3251040, US3247488, US3245044, US3243781, US3226691. US3226649. US3201761.			

Abstract:

Source: GB875695A 875,695. Digital electric-calculating apparatus. INTERNATIONAL BUSINESS MACHINES CORPORATION. Dec. 23, 1958 [Dec. 26, 1957], No. 41505/58. Drawings to Specification. Class 106 (1). A data transmission system for regulating the transfer of information between an addressable **storage** device having a plurality of locations for the **storage** of information and a plurality of peripheral units operable in a synchronous modes with respect to each other and to the said **storage** device comprises a plurality of control units each connectable to a peripheral unit and operable to transfer information synchronously between such unit and said **storage** device in which each control unit includes means for requesting access to said **storage** device and said plurality of control units are adapted to co-operate to establish an order of transfer of information in accordance with a pattern of requests for access to said **storage** device. A data processing system comprising an I.B.M. 701 computer as described in Proc. I.R.E., Vol. 41, pages 1262-1294, but using a magnetic core matrix as described in Specification 850,322 in place of the original C.R.T. **storage**, magnetic tape units, recordcard readers, and printers together with a known input/output buffering system is described and in particular a system of priorities is described to determine which of a number of peripheral units (e.g. tape units, printers, card readers, and c.) is to be given access with the main store (the core matrix) of the computer when several of them simultaneously issue requests for access. The magnetic tape units use known double-gap reading/writing heads, together with an error detecting arrangement as described in Specification 875,694, which is referred to. In the system described a large number of peripheral units are connected to the computer via six data synchronizer units and which of the six data synchronizer units is given access to the computer is determined by a priority unit which functions according to the following rules: The six data synchronizer units DSU1-DSU6 are divided into two main groups DSU1-DSU3 and DSU4-DSU6 which are each divided into two sub-groups of one and two units respectively. If a request for access to the computer is made by a single data synchronizer unit then this unit is given immediate access. If requests for access to the computer are made simultaneously by two data synchronizer units, one being in each of the main groups, then that unit belonging to the group which last had access to the computer is given immediate access and the other unit has to wait. This system of priority-that the last set of units to have access is given priority in the event of subsequent simultaneous requests for access-is applied as between two sub-groups of the same main group and as between the units of the same sub-group. In this way in the event of any number of simultaneous requests there is a unique order in which they will be granted.

Aug. 7, 1962 J. L. MCDONNELL ET AL 3,048,333
FAST MULTIPLY APPARATUS IN AN ELECTRONIC DIGITAL COMPUTER
Filed Dec. 26, 1961 244 Sheets-Sheet 1



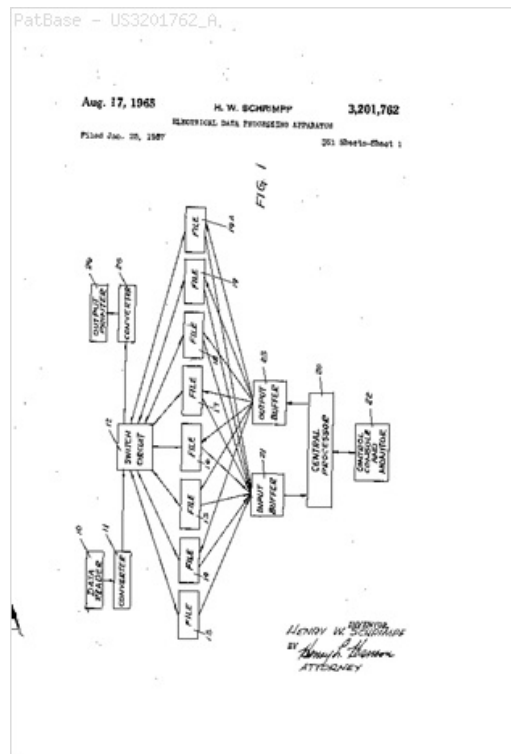
Title: ELECTRICAL DATA PROCESSING APPARATUS**Priority:** US19570636256 19570125

Family:	Publication number	Publication date	Application number	Application date
	GB886421 A	19620103	GB19580002437	19580124
	US3201762 A	19650817	US19570636256	19570125

Probable Assignee: HONEYWELL INC**Assignee(s):(std):** HONEYWELL INC ; HONEYWELL REGULATOR CO**Assignee(s):** MINNEAPOLIS HONEYWELL REGULATOR COMPANY**Inventor(s):(std):** SCHRIMPF HENRY W**International class**
(IPC 8-9): G06F15/00 G06F15/78 (Advanced/Invention);
G06F15/00 G06F15/76 (Core/Invention)**CPC:** G06F15/00 G06F15/78**European class:** 42M37G2D3 G06F15/00 G06F15/78**US class:** 708/670 708/673 710/21[Classification Explorer](#)**Cited documents:** US3053449 A, US3040299 A, US2960683 A, US2916210 A, US2885659 A, US2884619 A, US2874901 A, US2872666 A, US2872110 A, US2863604 A, US2856126 A, US2850234 A, US2850232 A, US2840305 A, US2831179 A, US2823368 A, US2817072 A, US2810516 A, US2808986 A, US2807005 A, US2801406 A, US2798554 A, US2797862 A, US2787416 A, US2785854 A, US2777634 A, US2767908 A, US2718356 A, US2705108 A, US2702380 A, US2679638 A, US2614169 A, US2604262 A, US2595889 A, GB770952 A, GB756757 A, GB749836 A, GB738605 A, GB678427 A, FR1084147 A, BE526231 A, BE526099 A, BE526058 A,**Forward Citations:** US9520008, US3354430, US3254329, US3247488, US2016093126,**Abstract:**

Source: GB886421A 886,421. Digital electric calculating and sorting apparatus. MINNEAPOLIS-HONEYWELL REGULATOR CO. Jan. 24, 1958 [Jan. 25, 1957], No. 2437/58. Class 106 (1). General.-A data processing machine has an internal store to or from which data may be transferred under the control of a single programme control order, and a portion of the data may be uniquely selected from the data being transferred for combination with the programme control order to direct a further operation of the machine in accordance with the modified control order. This feature of the machine has particular application to sorting-operations. A further feature of the machine is that a single control order may direct the transfer of data from an external source, e.g. a magnetic tape store, to a number of separately accessible **storage** locations in the internal store through an input buffer store, and simultaneously direct the transfer of data from these **storage** locations to an external destination through an output buffer store. In the embodiment described, data derived from punched cards and recorded on magnetic tape in one of files 13-19A, Fig. 1, is read at a relatively slow speed on 31 channels into the input buffer store 21 which discharges its contents into the internal store over a single channel at a relatively high speed, and the output buffer 23 simultaneously receives high-speed data from the internal store over a single channel and delivers it on 31 low-speed channels into one of the tape files 13-19A. Input buffer, Fig. 7 comprises an argument section and a data section which may be selectively connected to one of the magnetic tape files, each section being divided into an upper and a lower portion which are each capable of storing 31 complete words, corresponding to one block of 62 words recorded on 31 channels of a tape. A block of data is read serially into the 31 shift register circuits of the buffer section selected, and is later read out in parallel, words being read out alternately from the upper and lower portions into a high-speed register AOWL or DOWL, from which the data is again converted to serial form, provision being made for reversing the bit order if a reverse tape-read was used. The tape " argument " channel carries key information which identifies other information recorded in that particular block, and the argument section of the input buffer may receive data from a plurality of magnetic tapes, one channel at a time, or a complete block from a single tape. The buffer argument section also includes circuitry in the first ten register circuits to enable a selective read-out of any of the first twenty words stored in that section to be made. The number of words read out from the buffer store may be controlled by the programmer. Internal store. Fig. 9.-The serial input derived from high-speed register AOWL or DOWL is converted to parallel form at 156 and stored in local register 157 from which it may be transferred through Z driver 158 to an address in high-speed magnetic core memory 155 selected by X, Y drivers 161, 162. The X driver has four " tens " and ten " units " input lines, and the Y driver has five " tens " and ten " units " input lines from the memory control circuits 159, giving a total of 2,000 addresses in store 155. Word structure and operation checking, Fig. 2. Each word has 52 bit positions of which positions 5-52 are considered to be in groups of four which are assigned transfer weights 1, 2, 4, 8. Bits 1-4 comprise a weight count section which carries a number indicative of the number of " ones " in positions 5-52 in accordance with the transfer weights of those positions. The weight count provides a check to ensure that no errors are made in transferring a word between two locations or performing an operation on the word. The weight count is removed from the word which then undergoes the desired process and is then supplied to a transfer weight adder which generates a new weight count for the processed word, this weight count being compared with the original weight count, modified as necessary according to the type of process involved, and if the two weight counts are identical a check pulse is produced to allow the machine to proceed. Fig. 2 illustrates numeric and alphabetic data words and also order or instruction words used in the machine. The order words each have an operation code section in which the actual order is represented. Thus order word 1 may mean " take the word stored at address A and the word stored at address B, perform a specified arithmetic operation on them and store the result at address C." Order word 1 may also be used to perform various transfer and extracting functions. Order word 2 is used to transfer B2 words from the input or output buffer, as determined by bits Ba, Bd and the existing machine connections, and store them in B2 sequential locations starting with address A, the next order being obtained by a subsequence call to address C. Order word 3 means " transfer C2 consecutive words starting at address A and store them at consecutive locations starting at address B." Order word 4 is used for shifting a word left or right including or excluding the sign bit by four bits Bh times and also performing or not performing an additional two-bit shift as determined by Bt, the word being selected from address A and the modified word stored at address C. In addition to these words, sentinel words whose bit positions 51, 52 are zeros are employed, for performing special functions in the machine, such as denoting the end of a certain type of data or acting as filler words for the output buffer when a tape write signal is given before the buffer is full. A sentinel word when sensed is stored in a special register to which a sub-sequence call is made at the end of a machine major cycle, the sentinel word then directing a subsequence operation before the next major cycle commences. If no sentinel word is sensed, a " pass " order is stored in the special register. Control console and programming.-Initial programming is accomplished by way of a keyboard and an address selection keyboard, the programme being stored in sequential addresses in the internal store. The console also includes a typewriter from which a printout of data may be obtained at a specified time in the machine operation. The address of the first order to be used is inserted in a sequence register SR, Fig. 18, and this sequence number is changed at the end of each major machine cycle which includes a first minor cycle so that the machine orders are selected in succession. A sub-sequence may be initiated by the setting of certain special functional units, e.g. by the sensing of a sentinel word, while an order is being processed, in which case the contents of SR remain unchanged until the end of the major cycle proper. Minor cycle 1 is the same for all types of order words: sequence register SR sets an address selection circuit which then transfers the order word from the high-speed memory or a special address into control register CR. Special addresses denote circulating registers CR. AR2, AR4, LOP, AR7, the output buffer (one word) and a **label** register LR (not shown) which stores the source of a word currently being processed. The contents of SR are also supplied to an accumulator ACC in which a one is added to the address of the order word and to the transfer weight. The contents of SR are also supplied to LR. Weight count checks are made throughout minor cycle 1 (and all succeeding cycles) for each data transfer, and if no error is indicated the machine proceeds to cycle 2 (or next cycle). Arithmetic operations: Addition.-Fig. 18 shows the arithmetic unit. In cycle 2 CR supplies the addition order to an operation code register, and sets the address selector to transfer the numerical word at address A to AR1 in cycle 3, and the next order address in ACC is transferred to SR. In cycle 3 the sign of the number transferred from A to AR1 is noted and stored. In cycle 4 CR sets

the address selector to address B whereupon the number stored there is transferred to AR2 and its sign is also noted and stored. The two numbers are inserted into ACC, Fig. 26, in cycle 5, the number from address B being complemented before insertion if the signs of the number were found to be different. CR also sets the address selector to address C. In ACC a 6 is added to each decimal digit of the augend, no carry between digits occurring, and the modified augend is added serially to the addend in the main adder, carry digits being supplied as necessary from the main adder carry circuit. When there is no carry between a pair of decimal digits, the negation output of the main adder carry circuit causes a binary coded ten to be added without carry to the appropriate output digit of the main adder. The result of the addition is recirculated. In cycle 6 various control and checking functions are performed, and in cycle 7 the result is moved out of ACC and is checked before being supplied to address C in cycle 8. The machine will then step to cycle 1 or cycle 2 of the next order. Subtraction.-This operation is the same as addition except that in minor cycle 5, either A or B is complemented on being fed into ACC according to their signs. Multiplication.-In this operation the number at A is multiplied by the number at B and the high order product is transferred to C whilst the low order product is stored in LOP. Cycle 2 is similar to the addition process. The multiplicand is transferred from address A into ACC in cycle 3 and in cycle 4 the multiplier is transferred from B into LOP. In cycle 5, one, two, four and seven times the multiplicand are generated as follows. The multiplicand is applied to AR1 and added to itself in ACC; twice the multiplicand thus generated is applied to AR2 and added to itself in ACC; four times the multiplicand thus generated is applied to AR4, and twice the multiplicand and



Title: VAT DYESTUFFS

Priority: CH19600012112 19601028 CH19600013356 19601129 CH19600014396 19601223
 CH19600014397 19601223 CH19610009453 19610811 CH19610004788 19610424
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Family:

Publication number	Publication date	Application number	Application date
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International class (IPC 8-9): C07C50/34 C07D471/04 C09B1/00 C09B1/16 C09B1/20 C09B1/28 C09B1/32 C09B1/36 C09B1/42 C09B1/43 C09B1/46 C09B1/467 C09B1/48 C09B1/54 C09B1/56 C09B1/58 C09B3/00 C09B3/22 C09B3/30 C09B3/38 C09B3/54 C09B3/64 C09B3/68 C09B3/78 C09B3/82 C09B43/36 C09B49/00 C09B5/00 C09B5/02 C09B5/06 C09B5/10 C09B5/14 C09B5/24 C09B5/26 C09B5/28 C09B5/32 C09B5/34 C09B5/36 C09B5/62 C09B56/12 C09B57/12 C09B6/00 C09B62/00 C09B62/004 C09B62/006 C09B62/024 C09B62/04 C09B62/06 C09B62/44 C09B67/28 C09B67/30 C09B69/00 C09B69/08 C09B7/00 C09B9/00 C22C30/00 D06P1/24 D06P1/38 (Advanced/Invention); C07C50/00 C07D471/00 C09B1/00 C09B3/00 C09B43/00 C09B49/00 C09B5/00 C09B56/00 C09B57/00 C09B6/00 C09B62/00 C09B62/002 C09B62/02 C09B62/44 C09B69/00 C09B7/00 C09B9/00 D06P1/38 (Core/Invention)

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CPC: C09B1/20 C09B5/24 C09B5/32 C09B3/30 C09B3/78 C09B5/02 C09B5/34 C09B1/32 C09B1/363 C09B7/00 C09B69/00 C09B69/08 C09B1/28 C09B5/26 C09B3/38 C09B3/54 C09B3/82 C09B5/06 C09B5/2427 C09B1/00 C09B1/206 C07D471/04 Y10S8/918 C07C243/00 C09B3/68 C09B5/10 C09B5/36 C09B56/12 C09B62/00 D06P1/38 C09B1/36 C09B1/42 C09B1/43 C09B1/46 C09B1/467 C09B1/48 C09B1/58 C09B1/585 C09B3/00 C09B3/64 C09B5/00 C09B5/14 C09B5/28 C09B5/62 C09B6/00 C09B9/00 C09B43/36 C09B49/00 C09B57/12 C09B62/004 C09B62/0068 C09B62/024 C09B62/06 C09B62/4409 C09B62/4422 C09B1/547

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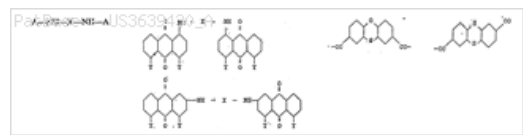
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Forward Citations: WO9814426, WO12122312, WO08138773, WO08138773, US9508938, US9377218, US9193727, US6605664, US6444376, US6302953, US6299676, US5961711, US5420257, US4596666, US4496221, US4464282, US4455253, US4446047, US4329456, US4136100, US4129736, US4126626, US3950347, US3935208, US3617174, US3530135, US3439002, US3426018, US3360532, US3321478, JP2014510726, JP2001271004, FR2522672, FR2442911, FR2437426, FR2430442, FR2372868, FR2367856, FR2366336, FR2366336, FR2346418, EP1737417, EP1158320, EP0934261, EP0792257, EP0592105, EP0427404, EP0427404, EP0103095, EP0059095, EP0059036, DE3314467, DE2439950, DE1292279,

Abstract:
Source: GB1000206A The invention comprises vat dyestuffs that **contain** at least one substituent imparting solubility in water, at least one aryl residue bound through an oxygen atom and two anthraquinone residues (including anthrone residues having four or more fused rings) which are joined together by an -NH-X-NH- bridge in which X is the residue of an organic di- or tri-basic acid. Examples include sulphonated bis-(aryloxyanthraquinonylamino)triazines and sulphonated bis - (anthraquinonylamino) derivatives of dicarboxylic acids such as oxalic, succinic, terephthalic, diphenyl-4: 41-dicarbo-oxylic and thiophene 2: 5-dicarboxylic acids. The dyes are made by sulphonation of an appropriate vat dye, by reacting a phenol or naphthol with a suitable halo- or nitro-vat dye or by acylating an aryloxyaminoanthraquinone with a di- or tribasic carboxylic acid and, if necessary, sulphonating the product, or by sulphating or acylating with an acylating agent **containing** a water-solubilizing group an appropriate vat dye **containing** a hydroxy group. The dyes dye cellulose ethers and esters, polyamides, polyacrylonitrile and polyurethane fibres, wool and silk but particularly cotton by the vat-dyeing process.



Title:	SURFACE HEATING DEVICE																										
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Assignee(s):(std):	EISLER P ; EISLER PAUL ; PAUL EISLER																										
Assignee(s):	EISLER P GB																										
Inventor(s):(std):	PAUL EISLER ; EISLER P ; EISLER PAUL																										
Inventor(s):	EISLER P GB																										
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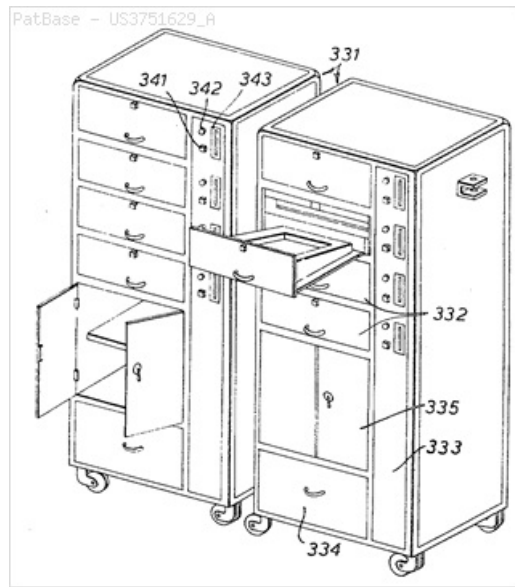
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Abstract:

Source: US3751629A A **dispensable container** constructed for a single use incorporates a thin low voltage heating film with terminals accessible from outside and **opening** means permitting access to its contents is used as a **package** for a substance adapted to be heated and plastic in the sense of being sufficiently mobile to be removed from the **container** as soon as it has been sufficiently heated. The outer portion of the **package** may comprise means for directing most of the heat inside the **package** to heat the substance and its side walls may be stiffened by a stiff frame of light weight material of the stressed skin type.



Title:	DRY CLEANING MACHINE																																																																
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Abstract:

Source: GB1025081A 1,025,081. Dry-cleaning apparatus. BORGWARNER CORPORATION. Sept. 26, 1962 [Oct. 3, 1961], No. 36610/62. Heading D1A. A closed circuit solvent supply system for one or more dry-cleaning machines I, II is shown in Fig. 3. Each machine has its own **storage container** 152 arranged below it but shares in a common filter and circulating system for the solvent. Solvent is supplied to the bottom of each machine through a hose 171 and rises to a level of an **opening** in the tub and overflows through a hose 164 into a lint filter 159 of the **storage** tank 152. All the tanks 152 are connected in series and solvent is extracted from them by a pump 174 through a pipe 173 and delivered to the bottom of a filter 177. The outlet pipe 178 at the top of the filter passes through a water-cooled heat exchanger 210 and through a pipe 211 to a supply manifold 213 which at its far end has an inverted U-pipe connection 212 to the **storage** tank of the end machine so that a continuous circulation of the solvent through the filter is maintained. The solvent for each machine is drawn off from the manifold 213 through pipes 221 control valves 222 and hoses 171 under gravity of the head of the U-pipe 212, an air vent pipe 219 being provided from the tanks 152 to the pipe 212. A solvent level switch 267 is adapted to be actuated if the pressure head of the solvent fails to operate warning lamps on the machines. When the filter 177 becomes blocked as indicated by a pressure gauge the pump 174 is stopped and the filter isolated from the circulating system; air under pressure is admitted to the filter to break the filter cake and soil from the filter screens which drops to the bottom of the filter. Further filter material may then be added to the system and the filter operation resumed. When required the sludge from the filter may be backwashed into a sludge tank 204. The solvent is drained from the tub after a cleaning operation by operation of the control valve 222 so that the solvent flows via hose 171 and hose 252 into the filter to tank 152. During the drying operation the condensed solvent is directed through valve 222 to a water separator before it is returned to tank 152. Each machine comprises a rotatable perforated basket 18, Fig. 5 (not shown), within a fixed tub 11 which is adapted to be rotated at low or high speed for washing with a solvent such as perchlorethylene or spin drying respectively by an electric motor M, Fig. 6 (not shown) two-speed gear T and belt drives 42, 22. The basket 18 is also adapted to be rotated slowly for a tumble dry when a heater 73 within the tub 11 and an air circulating fan 32 driven by a belt 63 are also in operation. A condenser 77 provided with cooling water is also provided in the lower part of the tub to condense the solvent vaporized during this drying operation which then drains away. Air inlet and exhaust valves 83, 84 are provided in the tub 11 to flush away solvent vapour left at the end of the drying operation through a blower and ventilating ducts. The door 17 of the tub 11 has a lock mechanism which is electrically controlled so that the door cannot be **opened** during the operating cycle of the machine. The cleaning and drying cycle of operations of each machine is started by a coin-operated mechanism and controlled automatically thereafter by a timer motor operating cams through a step-by-step mechanism to actuate sequentially switches controlling the operation of the various valves and other components of the machine. Two sub-interval timers are also provided the first of which provides a drying time delay in the event of an interruption of air flow during the dry cycle due, for example, to the fan belt being broken or loose or excessive loading of the basket. The second sub-interval timer provides a delay of the main timer during a "Pre-dry" period and "Timed dry pause" period.

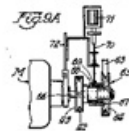
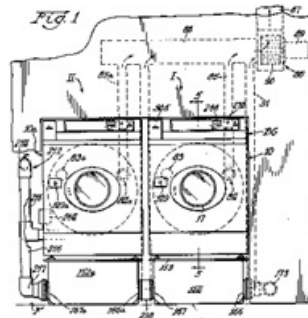
Dec. 22, 1964

C. E. BEHMENS
DAY CLEANING MACHINE

3,162,032

Filed Oct. 8, 1962

27 Sheets-Sheet 1



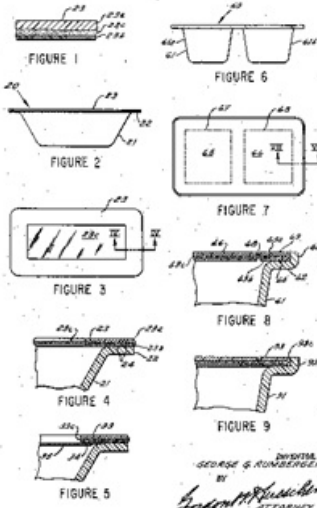
INVENTOR
Curtis E. Behmens
BY
H. J. Behrens

Title:	METHOD OF SEALING CONTAINERS WITH LAMINATED CLOSURES																																																												
Priority:	FR19620905394 19620727 US19650438931 19650311		FR19620905395 19620727 US19610133439 19610823		US19620187592 19620416																																																								
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Abstract:

Source: US3290856A 1,011,800. **Packages**. PETROLITE CORPORATION. Aug. 22, 1962 [Aug. 23, 1961; April 16, 1962], No. 32271/62. Addition to 1,011,796. Drawings to Specification. Heading B8C. [Also in Division B5] A **container** comprises a **container** body and an unarticulated **closure** member at least one of these being of the laminated sheet material of the parent Specification, the **closure** member being **sealed** to the body by the exudation of the thermoplastic adhesive from one or more avenues of exit in edge regions of the sheet material. The **container** may be a circular tub (Figs. 5-10, not shown), or a single or double compartment tray (Figs. 2-9, not shown), the **closure** member being a flat sheet of the laminate which may be provided with a transparent window by removal of a portion of the outer plies, or by providing a tearaway portion in the outer ply, the window either being formed by the adhesive layer or by a further inner film layer of glassine, regenerated cellulose, cellulose acetate vinyl, or polystyrene. A multi-**container** strip may be filled with contents and **covered** with a strip of the laminated sheet which is then cut into individual **closure** members with a heated blade which simultaneously effects the **sealing** of the **closure** members to the **containers**.

Dec. 13, 1966 G. G. RUMBERGER 3,290,856
METHOD OF SEALING CONTAINERS WITH LAMINATED CLOSURES
Original Filed April 18, 1963 2 Sheets-Sheet 1



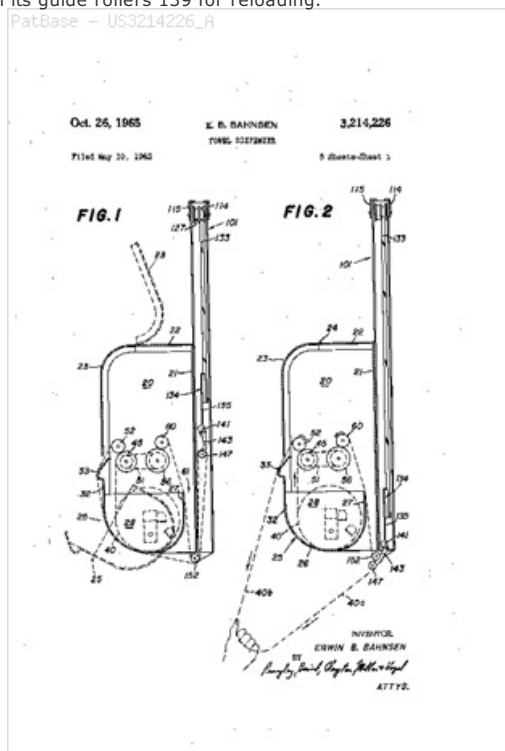
Title: TOWEL DISPENSER
Priority: US19630279440 19630510
Family:

Publication number	Publication date	Application number	Application date
AT264063 B	19680812	AT19630007835	19630930
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CH437689 A	19670615	CH19630012009	19630930
DE1429773 B1	19710311	DE19631429773	19630926
DK111913 B	19681021	DK19630004593	19630930
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NL139449 B	19730815	NL19630298403	19630925
NO117387 B	19690804	NO19630150242	19630926
US3214226 A	19651026	US19630279440	19630510

Probable Assignee: STEINER AMERICAN CORP
Assignee(s):(std): STEINER AMERICAN CORP ; STEINER CO LAUSANNE S A LAUSANNE ZWITSERLAND ; STEINER CO LAUSANNE SA
Assignee(s): STEINER CO LAUSANNE SOC ANONYME ; STEINER CO LAUSANNE S A
Inventor(s):(std): BAHNE BAHNSEN ERWIN ; BAHNSEN E ; BAHNSEN ERWIN B ; ERWIN BAHNE BAHNSEN
International class (IPC 8-9): A47K10/28 (Advanced/Invention);
A47K10/24 (Core/Invention)
International class (IPC 1-7): A47K10/28 A47K9/08
CPC: A47K10/28
European class: A47K10/28
US class: 312/34.15
[Classification Explorer](#)
Cited documents: US2899251 A, US2172482 A, US2100729 A, US1922845 A, US1788962 A, FR1322491 A,
Forward Citations: US4856854, US4848854, US4573750, US3826548, US3506320, US3323848, EP0250256, DE3610653,

Abstract:

Source: GB1033306A 1,033,306. **Towel dispensers**. STEINER CO. LOUSANNE S.A. Sept. 17, 1963 [May 10, 1963], No. 36494/63. Heading A4G. In a continuous **towel dispenser towelling** 40b, Fig. 3, is gripped beneath lip 33 and pulled outwardly and downwardly through **opening** 34 off a supply roll 40 in a hinged trough 25, over a measuring roller 45 and pinch roller 52, chain gearing 51 turning drive roller 56 which frictionally turns roller 60 taking up soiled **towelling** 40a. Projection 51b on the chain acts on cam 71 to turn lever 65 anti-clockwise on its pivot 66 to press together suction cups 78, 79, having a valve-controlled air bleed, and move stop 67 into the path of a tooth 48 on roller 45, stop withdrawal after a predetermined length of clean **towelling** is obtained and an equal length of soiled **towelling** wound on roller 60. On pulling out clean **towelling**, the previously used **towelling** 40c, which was lifted by a spring motor 125, 128, Fig. 6, on a roller 147 into a rear compartment 101, is pulled down over roller 152 to provide an adequate amount of **towelling** and maintained in its lowered position by a finger 149 on plate 135 carrying roller 147 engaging stop 92 on lever 89 which is moved into position by the end 87 of lever 65 when it is rotated to its stop position: When the suction cups part, spring 72 lifts lever 65 to release stop 92 whereupon the soiled **towelling** is lifted into the rear compartment 101 and the measuring roller freed for further **dispensing**. The last portion of **towelling** is retracted completely into the compartment until plate 135 abuts leaf spring 155 since no **towel** tension restricts movement of the spring motor 125, 128. The plate 135 may be lowered manually at 153 on its guide rollers 139 for reloading.

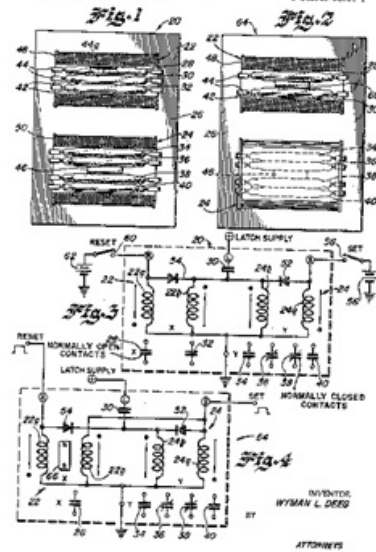


Title:	Counting circuit using bistable relays																																
Priority:	FR19630941613 19630716		US19620210119 19620716		US19650500584 19651022																												
Family:	<table><thead><tr><th>Publication number</th><th>Publication date</th><th>Application number</th><th>Application date</th></tr></thead><tbody><tr><td>DE1274647 B</td><td>19680808</td><td>DE1963C030488</td><td>19630716</td></tr><tr><td>FR1367826 A</td><td>19640724</td><td>FR19630941613</td><td>19630716</td></tr><tr><td>GB1047720 A</td><td>19661109</td><td>GB19630025408</td><td>19630626</td></tr><tr><td>SE320696 B</td><td>19700216</td><td>SE19630007887</td><td>19630716</td></tr><tr><td>US3244942 A</td><td>19660405</td><td>US19620210119</td><td>19620716</td></tr><tr><td>US3327178 A</td><td>19670620</td><td>US19650500584</td><td>19651022</td></tr></tbody></table>					Publication number	Publication date	Application number	Application date	DE1274647 B	19680808	DE1963C030488	19630716	FR1367826 A	19640724	FR19630941613	19630716	GB1047720 A	19661109	GB19630025408	19630626	SE320696 B	19700216	SE19630007887	19630716	US3244942 A	19660405	US19620210119	19620716	US3327178 A	19670620	US19650500584	19651022
Publication number	Publication date	Application number	Application date																														
DE1274647 B	19680808	DE1963C030488	19630716																														
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US3327178 A	19670620	US19650500584	19651022																														
Probable Assignee:	GENERAL INSTRUMENT CORP																																
Assignee(s):(std):	CLARE AND CO C ; CLARE AND CO C P ; CLARE C AND CO																																
Assignee(s):	CP CLARE AND CO ; GENERAL INSTRUMENT CORP ; C P CLARE AND CO ; C P CLARE AND COMPANY																																
Inventor(s):(std):	DEEG W ; DEEG WYMAN L ; DEEG WYMAN LOWELL																																
International class (IPC 8-9):	H01H51/28 H03K23/74 (Advanced/Invention); H01H51/00 H03K23/00 (Core/Invention)																																
International class (IPC 1-7):	G05B11/26 G11C11/00 H03K21/00 H03K23/25																																
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US class:	327/190 361/167 361/194 361/210 377/126 377/65 377/83																																
Classification Explorer																																	
Cited documents:	US3182226 A, US3174080 A, US3118090 A, US3088056 A, US3076918 A, US3056906 A, US3043990 A, US3042900 A, US3023401 A, US3020369 A, US3017542 A, US2999227 A, US2634376 A, US2616958 A, CA621259 A,																																
Forward Citations:	US3541544, US3525022, US3506882, US3413526, US3389308, US3387186, US3377517, US3377472, US3350705, US3340511.																																

Abstract:

Source: GB1047720A 1,047,720. Counters; shift registers. C. P. CLARE and CO. June 26, 1963 [July 16, 1962], No. 25408/63. Headings G4A and G4D. A bi-stable device or module comprises a combination of switches and two or more windings so arranged as to effect single or multiple control over the switches, some of which may be used to control other bi-stable devices of the same type. X windings 22a, 22b, Figs. 1 and 3, control **sealed** magnetic switches 28, 30, 32 while Y windings 24a, 24b control similar switches 34, 36, 38, 40. Switches 36, 38 are normally closed by a permanent biasing magnet 46. The switches are of reed type which are maintained in engagement by a magnetic field some two-thirds of the operating strength. A +ve pulse on set terminal S energizes windings 24a, 24b which are opposed so that switches 34-40 are unaffected. However, winding 22b also energizes through diode 52 to close switches 28, 30, 32. Switch 30 maintains windings 22b, 24b at the end of the setting pulse when 24a releases, whereupon the effect of permanent magnet 46 is overcome and all switches 34-40 change over. The device is reset by a pulse at R which energizes winding 22a so releasing 28, 30, 32 and disconnecting the latching potential, so restoring switches 34-40. Modification, Fig. 4. The permanent magnet 46 is supplemented by another 66 sufficient to hold switches 28, 30 but not to operate them. Winding 22b is independent of switch 30 and is connected directly to terminal S. The setting pulse energizes 22b to close switches 28, 30, winding 24b then operating to latching potential. At the end of the pulse 24a de-energizes and switches 34-40 change over. At the same time 22b releases but magnet 66 maintains switches 28, 30. A positive resetting pulse at R energizes 22a to overcome the effect of magnet 66 so restoring switches 28, 30 followed by switches 34-40. Fig. 5 shows a modification of Fig. 3 in which the application of a priming pulse at P can also set the module. Shift register, Fig. 6. Digital data is set up on switches 74-77 and entered through priming terminals of modules A-D as described with reference to Fig. 5 when a write pulse is applied. The switches 34-40 associated with the modules A-D direct shift pulses to succeeding modules as required to produce a serial output over switch 40D. A parallel output is available over the switches 28, 32 of the individual modules. The register can be arranged to recirculate. It can be cleared by disconnection of the latch supply. Fig. 7 shows a shift register with serial input through contacts 82 set before the application of each shift pulse and serial output at 40B. Alternatively, switches 28, 32 provide a parallel output when all the data has been entered. Ring counter, Fig. 10. The modules of Fig. 3 are used in a reversible ring counter, contacts 36, 38 being, however, normally **open**. The first module is set by **closure** of switch 99, relay 100 then closing switch 102 momentarily. Add or subtract pulses then step the operated condition appropriately and reset the previously operated module over line 94. Transfer up or down is provided for. By using the magnetic memory modules of Fig. 4, the count may be retained even if the current is disconnected. Flip-flop. Fig. 11 shows a single input flipflop used in conventional manner to provide a binary counter (Fig. 12, not shown) or a binary-coded decimal counter with carry (Fig. 13, not shown). Module 140, Fig. 14, shows a simplified module which can be set to **storage** condition and then reset by interrupting the latch supply. It can be used conventionally in a ring counter (Fig. 15, not shown).

June 20, 1967 W. L. DEEG 3,327,176
 MONITOR CIRCUIT USING RESET-ABLE RELAYS
 Original Filed July 26, 1962 5 Sheets-Sheet 1



Title:

BIS(ISOCYANOTOALKYL OR PHENYL) TRANS-9, 10-DIHYDROANTHRACENE 9, 10-ENDO ALPHA, BETA-SUCCINATES

Priority:

FR19630942565 19630724 FR19650037714 19651108 US19620212480 19620725
US19630256495 19630125 US19640409921 19641109 US19650478400 19650809
US19680718090 19680402 US19650485285 19650907 US19680718094 19680402
US19680718080 19680402 US19690849596 19690807 US19690849299 19690807

Family:	Publication number	Publication date	Application number	Application date
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	DE1545124 A1	19700409	DE19631545124	19630725
	DE1645562 A1	19700514	DE19651645562	19651109
	DE1795449 A1	19720105	DE19651795449	19651109
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	US3551475 A	19701229	US19650485285	19650907
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	US3567695 A	19710302		19680402
	US3579482 A	19710518		19680402
	US3629200 A	19711221	US19690849596	19690807
	US3677983 A	19720718	US19690849299	19690807

Probable Assignee:

UNION CARBIDE CORP

Assignee(s):(std):

UNION CARBIDE CORP

Assignee(s):

MORGAN GUARANTY TRUST CO ; MORGAN GUARANTY TRUST CO OF NEW YORK AND MORGAN BA ; MORGAN GUARANTY TRUST CO OF NEW YORK AND MORGAN BANK (DELAWARE) COLLATERAL (AGENTS) SEE RECORD FOR REMAINING ASSIGNEES AS ; MORGAN GUARANTY TRUST CO OF NEW YORK AND MORGAN BANK DELAWARE COLLATERAL AGENTS SEE RECORD FOR REMAINING ASSIGNEES AS

Inventor(s):(std):

WENDELL LYNN JOHN ; VA ALBANS W ; LYNN JOHN W ; KNOPF ROBERT J ; KEMPER BROTHERTON THOMAS ; JOHN KNOPF ROBERT ; BROTHERTON THOMAS K

Inventor(s):

THOMAS K BROTHERTON ; ROBERT J KNOPF ; JOHN W LYNN ; ALBANS W VA

International class (IPC 8-9):

B65D8/08 C07C263/10 C07C265/04 C07C265/10 C07C265/14 C07C265/16 C07D493/08 C08F2/38 C08F20/10 C08F20/36 C08F22/22 C08F222/10 C08F222/22 C08F8/30 C08G18/02 C08G18/04 C08G18/70 C08G18/72 C08G18/73 C08G18/75 C08G18/77 C08G18/80 C08G18/81 C08J9/04 C08L75/04 C09D175/00 C09J187/00 D06M15/564 (Advanced/Invention); B65D8/04 C07C263/00 C07C265/00 C07D493/00 C08F2/38 C08F20/00 C08F22/00 C08F222/00 C08F8/00 C08G18/00 C08J9/00 C08L75/00 C09D175/00 C09J187/00 D06M15/37 (Core/Invention)

International class (IPC 1-7):

B65D8/08 C07C119/04 C07C119/042 C07C119/045 C07C119/048 C07C119/06 C07C69/74 C08F2/38 C08F20/10 C08F222/10 C08F222/22 C08F27/10 C08F8/30 C08G18/02 C08G18/04 C08G18/75 C08G18/77 C08G18/81 C08G22/18 C08G22/24 C08G22/26 C08G22/28 C08G22/44 C08J9/04 C08L75/04

CPC:

Y10S528/905 Y10S528/906 C07D493/08 C08F22/22 C08G18/02 C08G18/04 C08G18/728 C08G18/75 C08G18/758 C08G18/771 C08G18/773 C08G18/8125 C08G18/8141 C08J9/04 D06M15/564 C07C265/04 C07C263/16

European class:

124BG5B4 124CA5N5D 124CA7 124CA7G 124CB7F1H 124CC1N10G4 124CF53/05HD3C9 124CF6HJ3C9 124CF6NJ5A3 124JA10 124JC3 C07C263/16 C07C265/00 C07D493/08 C08F2/00T C08F22/22 C08G18/02 C08G18/04 C08G18/72P C08G18/75 C08G18/75D C08G18/77D C08G18/77G C08G18/81D C08G18/81K C08J9/04 D06M15/564

US class:

106/252 106/264 106/265 156/307.3 156/331.4 156/331.7 252/3 260/2.5AT 260/468 260/485 260/75 521/127 521/130 521/137 521/144 521/145 521/147 521/148 521/149 521/150 521/155 521/160 521/162 521/172 521/176 525/455 526/230 526/232 526/261 526/268 526/271 526/280 526/281 526/301 526/302 526/310 526/312 528/272 528/288 528/296 528/354 528/44 528/45 528/50 528/53 528/55 528/56 528/57 528/58 528/61 528/63 528/65 528/67 528/70 528/73 528/74 528/74.5 528/75 528/76 528/80 528/85 528/905 528/906 549/463 558/240 560/107 560/120 560/125 560/127 560/128 560/129 560/142 560/146 560/158 560/164 560/171 560/188 560/192 560/193 560/194 560/195 560/196 560/261 560/55 560/80 560/84

Classification Explorer

Cited documents:

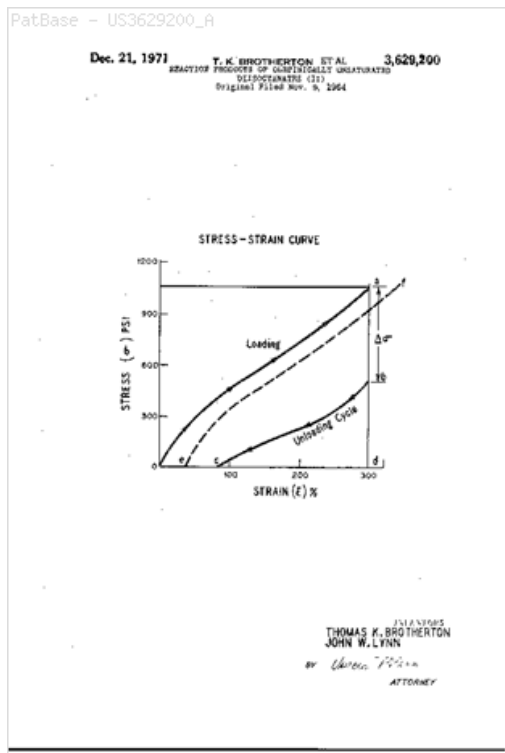
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Forward Citations:

WO8204249, WO8202048, WO11022583, USRE29131, US9574043, US9328192, US8962785, US8927660, US8550968, US8529934, US8110650, US8003747, US7785522, US7417094, US7125950, US6376510, US6274757, US6274623, US5328179, US4816537, US4791156, US4659795, US4546110, US4446175, US4436885, US4374969, US4351755, US4320221, US4233425, US4210713, US4190599, US4124552, US4088674, US3996269, US3945875, US3856741, US3691134, US3674837, US3664863, US3655437, US3654021, US3650795, US3627726, US3535287, US3505252, US3468934, US3422165, US3413144, US3345388, US2016289412, US2015259464, US2014163165, US2011045030, US2010303950, US2009230587, US2008287639, US2007270542, US2007179250, US2007111874, US2006173142, US2006106158, US2006079624, US2004242910, GB2248066, GB2248066, FR2366263,

Abstract:

Source: US3275679A Curable coating compositions are obtained by reacting diisocyanate esters of formula wherein R is a divalent substituted or unsubstituted, saturated or unsaturated aromatic group; and R1 is a divalent group (see Division C2) with a drying oil or a diene of formula where each R6 and R8 is hydrogen or a substituted or unsubstituted aliphatic group or one of R6 and R8 together are a methylene or phenylene group or an oxo bridge; and R7 is hydrogen or a substituted or unsubstituted aliphatic group or both R7's taken together are part of the same six-membered cycloaliphatic or aromatic group. Diene compounds mentioned are tung, oiticica, corn, linseed, safflower seed, soybean or dehydrated castor oils. The compositions may include driers, e.g. cobalt naphthenate, lead octanoate, dibutyl tin dilaurate, diamines and aminetin complexes, fillers and pigments and yield transparent flexible coatings. Examples describe the reaction of tung oil, oiticica oil or tung oil modified with a pentaerythritol ester of rosin, oiticica oil modified with a rosin acid ester of tricyclo-[4.3.12,5.01,6]-undecane-4,8,9-triol, dehydrated castor, linseed and oiticica oils and bis-(2-iso-cyanatoethyl) fumarate which yield air-drying and moisture cured film coatings. ALSO: The invention comprises ester isocyanates of formula wherein R is a divalent substituted or unsubstituted, saturated or unsaturated aliphatic or alicyclic group or a substituted or unsubstituted aromatic group and R1 is a divalent group of formula wherein B is a divalent organic group containing a 2-butylene group which forms a six-membered ring; R2 is hydrogen or alkyl with the proviso that when both R's are alkylene R1 is not a cis-vinylene group. Particular groups of compounds mentioned are those of formula wherein R3 represents an alkylene, alkenylene, alkynylene, cycloalkylalkylene, cycloalkenylalkylene, or aralkylene groups with 2-10 C atoms, e.g. bis-(2-isocyanatoethyl), bis-(2,2-dimethyl - 3 - isocyanatopropyl), bis - (9-isocyanatononyl), bis - (5,6,7 - triethyl - 9 - isocyanatononyl), 2 - methyl - 3 - isocyanatopropyl 2-isocyanatoethyl and 4-ethyl-7-isoheptyl 6-isocyanato fumarates; of formula where R4 is a cycloalkylene, cycloalkenylenes, cycloalkynylene, alkylcycloalkylene, alkylcycloalkenylene, alkylcycloalkynylene, or cycloalkylenealkylene group with 4-10 C atoms, e.g. bis-(2-isocyanatocyclobutyl) maleate, bis-(3-isocyanatocyclopentyl) fumarate, bis-(5-isocyanato-6-cycloheptamyl) maleate, bis-(3-isocyanato cyclopentylmethyl) fumarate and bis-(3 - isocyanato - 5 - methylcyclohexyl) fumarate; where R4 represents a divalent substituted or unsubstituted aromatic group with 6-12 C atoms or a fused cycloaliphatic or aromatic ring, e.g. bis-(2-isocyanatoethyl)-4-cyclohexene-1,2-dicarboxylate or bicyclic or heterocyclic ester isocyanates, e.g. bis-(2-isocyanatoethyl)-5-norbornene - 2,3 - dicarboxylate or bis - (2-isocyanatoethyl) - 3,6 - endo - oxo - 4 - cyclohexene - 1,2 - dicarboxylate; or compounds obtained by the Diels-Alder reaction of a drying oil with an olefinically unsaturated ester isocyanate. The ester isocyanates are prepared by reacting a carbonyl dihalide, e.g. phosgene with the corresponding olefinically unsaturated ester diamines or diamine salts, in an inert liquid organic solvent at between 100 DEG and 225 DEG C. Examples describe the preparation of bis-(2-isocyanatoethyl) fumarate; bis-(a -isocyanatoethyl) fumarate; bis - 2 - isocyanatoethyl) - 5 - norbornene - 2,3 - dicarboxylate, bis - (2 - isocyanato) - 4 - cyclohexene - 1,2-dicarboxylate; bis - (2 - isocyanatoethyl)-trans - 9,10 - dihydroanthracene - 9,10 - endo-a,b - succinate; bis - (2 - isocyanatoethyl) - 4-methylcyclo - hex - 4 - ene - 1,2 - dicarboxylate; and bis - (2 - isocyanatoethyl) - 4,5 - dimethylcyclohex - 4 - ene - 1,2 - dicarboxylate. Compounds of the formula are prepared by the additional step of adding a diene to the unsaturated ester isocyanate. Dienes are listed and preferred are the triglycerides of fatty acids with at least one conjugated unsaturation or unsaturation capable of reaction. Examples describe the Diels-Alder reaction of tung oil, oil modified with a rosin-pentaerythritol ester, oiticica oil modified with a rosin acid ester of tricyclo-[4,3,12,5,01,6] undecane - 4,8,9 - triol, dehydrated castor oil and linseed oil with bis-(2-isocyanatoethyl) fumarate and the products yield cured films of improved protective properties.



Title: File protection to i/o storage

Priority: FR19650011672 19650402 FR19650011673 19650402 FR19650011675 19650402
 FR19650011676 19650402 FR19650011674 19650402 FR19650011902 19650405
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Probable Assignee: IBM

Assignee(s):(std): IBM ; INT EUSINESS MACHINES COR

Assignee(s): INT BUSINESS MACHINES TE ARMONK NEW YORK VER ST V AM CORP ; IBM CORP ; IBM US ; INT BUSINESS MACHINES ARMONK NEW YORK VER ST V AM CORP ; INT BUSINESS MACHINES CORP ; INT BUSINESS MACHINES CORP ARMONK N Y V ST A ; INT EUSINESS MACHINES CORP

Inventor(s):(std): VILLANTE ; VILLANTE A ; VILLANTE ANTHONY E ; VILLANTE ANTHONY EUGENE ; WEBER ; WEBER H ; WEBER HELMUT ; WILLIAM PORTER HANF ; WILLIS ROOD JOHN ; PERKINS CHARLES B JR ; PERKINS C ; PERKINS ; MYRON AMDHAHL GENE ; MYRON AMDAHL GENE ; MOYER JAMES T ; MOYER J ; MORTON SMITH RONALD ; MARTIN UPDIKE BRUCE ; MARSH ELLIOTT R ; MARSH E ; MARSCH E ; MARIE BOEHM ELAINE ; MAGDALL ALBERT ALLAN ; MAGDALL A ; MAGDALL ; JUN CHARLES BERTRAM PERKINS ; JR CHARLES BERTRAM PERKINS ; JOSEPH CARNEVALE RICHARD ; JOHNSON JACOB RAYMOND ; JOHNSON J ; JOHNSON ; JOHN WILLIS ROOD ; JAMES THEODORE MOYER ; JACOB RAYMOND JOHNSON ; JACK ELLIS GREENE ; HILL PETER R ; HILL P ; HANF WILLIAM PORTER ; HANF W ; HANF ; HANE WILLIAM PORTER ; GREENE JACK ELLIS ; GREENE J ; GREENE ; GERRIT ANNE BLAAUW ; GENE MYRON AMDAHL ; FREDERICK COLLINS ARTHUR ; FRANCIS ROMAN RAUSCH ; FRANCES BEAUSOLEIL WILLIAM ; EUGENE VILLANTE ANTHONY ; ELLIS GREENE KACK ; ELLIS GREENE JACK ; ELLIOTT ROBINSON MARSH ; ELAINE MARIE BOEHM ; CRANEVALE RICHARD JOSEPH ; COLLINS ARTHUR FREDERICK ; COLLINS A ; COLLINS ; CLARK WILLIAM A ; CLARK W ; CHARLES BERTRAM JR PERKINS ; CASE RICHARD PAUL ; CASE R ; CASE P ; CASE ; CARNEVALE RICHARD JOSEPH ; CARNEVALE R ; CARNEVALE ; CALINGAERT PETER ; CALINGAERT P ; CALINGAERT ; BRUCE MARTIN UPDIKE ; BOEHM ELAINE MARIE ; BOEHM ELAINE M ; BOEHM E ; BOEHM ; BLAAUW GERRIT ANNE ; BLAAUW GERRIT A ; BLAAUW G ; BLAAUW ; BERTRAM PERKINS JUN CHARLES ; BEAUSOLEIL WILLIAM FRANCES ; CARNEVALE RICHARD J ; CLARKE IV WILLIAM ALBERT ; COLLINS ARTHUR F ; GREENE JACK E ; HANF WILLIAM P ; HELMUT WEBER ; HILL PETER ROHRBACH ; PAUL CASE RICHARD ; PERKINS JR CHARLES B ; PETER CALINGAERT ; PETER ROHRBACH HILL ; PORTER HANF WILLIAM ; RAUSCH F ; RAUSCH FRANCIS R ; RAUSCH FRANCIS ROMAN ; RAYMOND JOHNSON JACOB ; RICHARD JOSEPH CARNEVALE ; RICHARD PAUL CASE ; ROBINSON MARSH ELLIOTT ; ROHRBACH HILL PETER ; ROMAN RAUSCH FRANCIS ; ROOD ; ROOD J ; ROOD JOHN W ; ROOD JOHN WILLIS ; SMITH R ; SMITH RONALD M ; SMITH RONALD MORTON ; JOHNSON JACOB R ; MAGDALL ALBERT A ; MARSH ELLIOTT ROBINSON ; THEODORE MOYER JAMES ; UPDIKE ; UPDIKE B ; UPDIKE BRUCE M ; UPDIKE BRUCE MARTIN ; BEAUSOLEIL WILLIAM F ; BEAUSOLEIL W ; ARTHUR FREDERICK COLLINS ; ANTHONY EUGENE VILLANTE ; ANNE BLAAUW GERRIT ; AMDHAHL GENE MYRON ; AMDAHL GENE MYRON ; AMDAHL GENE M ; AMDAHL G ; AMDAHL ; ALLAN MAGDALL ALBERT ; ALBERT CLARKE WILLIAM ; ALBERT ALLAN MAGDALL ; WILLIAM FRANCES BEAUSOLEIL ; WILLIAM ALBERT CLARKE ; RONALD MORTON SMITH ; MOYER JAMES THEODORE

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International class (IPC 8-9): G06F11/16 G06F12/14 G06F13/00 G06F13/10 G06F13/12 G06F13/22 G06F13/26 G06F13/38 G06F15/78 G06F17/21 G06F3/00 G06F3/06 G06F3/12 G06F7/38 G06F7/491 G06F7/50 G06F7/502 G06F7/575 G06F9/22 G06F9/26 G06F9/30 G06F9/302 G06F9/32 G06F9/46 G06F9/48 (Advanced/Invention); G06F11/16 G06F12/14 G06F13/00 G06F13/10 G06F13/12 G06F13/20 G06F13/38 G06F15/76 G06F17/21 G06F3/00 G06F3/06 G06F3/12 G06F7/38 G06F7/48 G06F9/22 G06F9/26 G06F9/30 G06F9/302 G06F9/32 G06F9/46 (Core/Invention)

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European class: 42M37G2D3 G06F11/10 G06F11/16C6 G06F12/14C1B G06F12/14D1 G06F13/00 G06F13/10 G06F13/12L G06F13/22 G06F13/26 G06F13/38 G06F15/78 G06F17/21 G06F3/00 G06F3/06 G06F3/12 G06F3/12C G06F3/12C2 G06F7/38 G06F7/491A G06F7/50 G06F7/502 G06F7/575 G06F9/22F G06F9/26 G06F9/26F G06F9/26N1 G06F9/30 G06F9/30A1A G06F9/30A3C G06F9/30B G06F9/30T4T G06F9/32A G06F9/46 G06F9/48C2 S06F207/38A4W S06F3/12C S06F3/12C2

US class: 340/172.5 710/17 710/36 711/163 711/164 711/E12.094 711/E12.101 712/244 712/E09.006 712/E09.009 712/E09.01 712/E09.012 712/E09.016 712/E09.017 712/E09.077 712/E09.079 712/E9.006 712/E9.009 712/E9.01 712/E9.012 712/E9.016 712/E9.017 712/E9.077 712/E9.079 714/E11.055 714/E11.064

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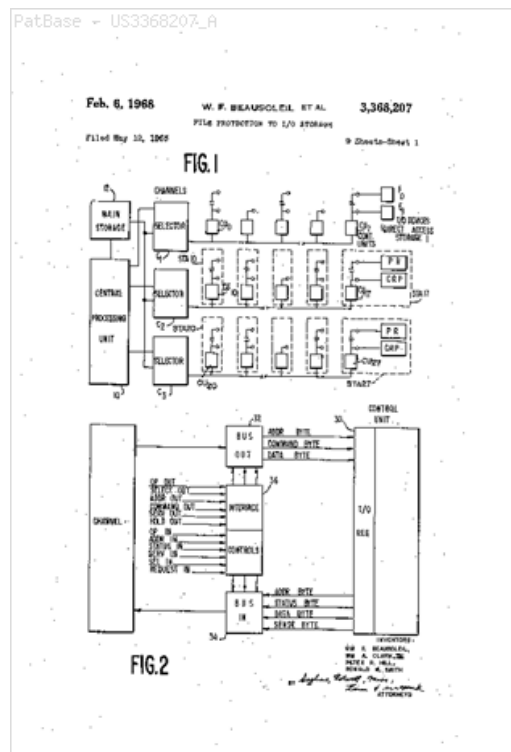
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Abstract:

Source: US3368207A ABSTRACT OF THE DISCLOSURE

File projection for a data processing system comprising a central processing unit having peripheral direct access **storage** means shared by more than one user station, characterized by selective masking means controlled by the central processing unit in response to problem programs presented to the central processing unit by user stations, for excluding individual user stations from access to all areas of the **storage** means except those respectively allocated to them by program means of the central processing unit, the maskin- means being effective for reading, as well as writing, access, and for specific portions of each record stored in the area assigned to a user.



Title: PARENTERAL FLUID CONTAINER AND PORT STRUCTURE**Priority:** US19620211568 19620723

Family:	Publication number	Publication date	Application number	Application date
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	US3205889 A	19650914	US19620211568	19620723

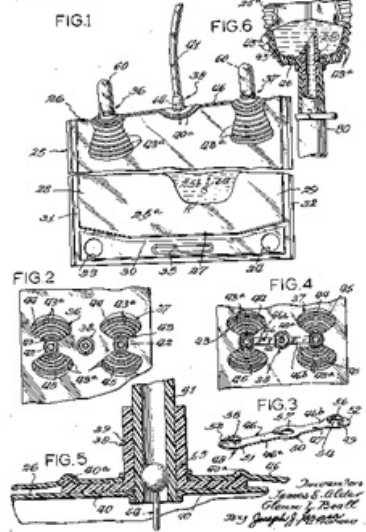
Probable Assignee: ABBOTT LABORATORIES**Assignee(s):**(std): ABBOTT LAB**Assignee(s):** ABBOTT LABORATORIES**Inventor(s):**(std): ALDER JAMES E ; BEALL GLENN L**International class** A61J1/00 A61J1/05 (Advanced/Invention);

(IPC 8-9): A61J1/00 A61J1/05 (Core/Invention)

CPC: A61J1/10 B29C45/0081**European class:** A61J1/00T A61J1/10 L29C45/00K**US class:** 222/107 222/541.6 383/96 604/110 604/262 604/408[Classification Explorer](#)**Cited documents:** US3110411 A, US3105613 A, US3073307 A, US3057129 A, US3030955 A, US3022613 A, US3006341 A, US2999387 A, US2969102 A, US2940444 A, US2894510 A, US2838046 A, US2777490 A, US2323629 A, US2124565 A,**Forward Citations:** WO9306948, WO8501472, US8136330, US8034042, US8034041, US7717897, US7530974, US7527619, US7488311, US5845812, US5827164, US5743435, US5580349, US5452823, US5372281, US5339988, US4794750, US4722727, US4706830, US4698061, US4589879, US4520948, US4415393, US4410026, US4386622, US4368765, US4340049, US4305443, US4300560, US4274554, US4240481, US4196088, US3963026, US3951148, US3921634, US3777697, US3642047, US3583460, US3554256, US3509879, US3465784, US3364930, US3306327, US2009235619, US2009209934, US2009192484, US2007027437, US2006282061, US2006138070, US2006138069, FR2450613, FR2419731, EP2628474, EP0927552, EP0315740, EP0277803, EP0269419, EP0156828,**Abstract:**

Source: US3205889A 1,027,288. Making bags with nozzles. ABBOTT LABORATORIES. Feb. 26, 1963 [July 23, 1962], No. 7738/63. Heading B5D. [Also in Division A5] A continuous method of making bags, particularly for the collection, **storage** and administration of parenteral liquids, comprises the steps of securing port assemblies at spaced intervals along the medial portion of a flexible web, folding the web along the medial portion and **sealing** the folded web portions together to form **sealed** chambers, each having one or more port assemblies along a transverse edge. Part assemblies 36, 37, disposed along the folded edge of the bag for the connection through a piercing needle 80 to a fluid administration set 81, 82, 83, 84 or a tube interconnecting two bags, each comprise a tube 42 (Fig. 7, not shown) and a flange 43, having a pair of ribbed enlarged portions 44, 45, which is **sealed** to the bag so that the enlarged portions extend along opposite sides of the bag to hold them spaced apart and form finger shields. The portion of the bag wall extending across the tube 42 forms a pierceable diaphragm 25c (Fig. 7, not shown), which is restrained against outward flexure by an inwardly projecting member 61a of a **closure** cap 61. The cap has a flange 62 which is held against the port flange 53 by an apertured flange 51 of a hanger strip 46 (Fig. 4, not shown). The hanger strip extends between the port assemblies, the flanges 51 being **sealed** around their peripheries to the port flanges 43. The **closure** is removed by forcing its flange from beneath the hanger flange. Alternatively, the **closure** flange is **sealed** to the port flange and the cap is removed by rupturing a line of weakness between the **closure** cap and the flange. A port assembly 38 (Fig. 5, not shown) comprises a tube 39 having a ribbed flange 40 which is **sealed** to the bag. The tube 39 receives one end of a tube 41 which is used in filling the bag and may have a piercing needle at the other end for connection to another bag. The end of the tube in the bag has a **closure** member 64 in the form of a ball or plug manipulable through the bag wall. The folded edge 26 of the bag may be disposed at an angle other than a right angle to the two adjacent **sealed** side edges 28, 29. The bag may be suspended with the port assemblies at the bottom by one or more hanger holes 33, 34, 35 which may be disposed at different levels so that the bag may be tilted as desired. The hanger portions 46a, 46b of the hanger strip 46 may be of different lengths (Fig. 19, not shown), so that when they are each placed over a hook the bag is tilted. Alternatively, hanger tabs (Fig. 20, not shown) may be connected to the bag between the port assemblies or holes may be formed in the **sealed** edges adjacent the folded edge (Fig. 21, not shown). The bags are made continuously from a flexible web 151 (Fig. 22) on a roll 150. The web is washed in a tank 155 and after being squeezed between rollers 157, 158 passes to a station 159 where the port assemblies including hangers are dielectrically **sealed** along its medial portion. The web is then passed to a heated drying station 162. After folding the web along its medial portion at a station 164, opposed portions of the web are **sealed** to one another transversely of the web and along its free edges to form individual interconnected bags at a **sealing** station 168 (Fig. 22b). The bags are then partially severed from one another at a station 177 and filled with anticoagulant at a station 179, the **closures** 64 and tubes 41 being subsequently applied. Alternatively, the partially connected bags are wound on a roll 184 for **storage**. The bags and port assemblies may be made of polyvinyl chloride and the **closures** for the port assemblies may be made of polypropylene, nylon, vinyl plastics, polycarbonate or polyethylene.

Sept. 14, 1965 J. E. ALDER ET AL. 3,205,889

THERMAL FLUID CONTAINER AND PORT STRUCTURE
Filed July 20, 1966 Sheet 1 of 1

Title: DATA PROCESSING UNIT FOR EXECUTING COMMANDS BY EXTERNAL APPARATUS**Priority:**

CH19650006199	19650504	FR19650015720	19650504	US19640364493	19640504
US19640364514	19640504	US19640364404	19640504	US19640364558	19640504
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US19640364738	19640504	US19640364559	19640504	US19640364691	19640504
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Family:	Publication number	Publication date	Application number	Application date
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	GB11111046 A	19680424	GB19650018775	19650504
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	US3298001 A	19670110	US19640364599	19640504
	US3308442 A	19670307	US19640364693	19640504
	US3308443 A	19670307	US19640364738	19640504
	US3310785 A	19670321	US19640364493	19640504
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	US3473154 A	19691014		19640504
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	US3473156 A	19691014		19640504
	US3478320 A	19691111		19640504
	US3500333 A	19700310		19640504
	US3500334 A	19700310	US19640364598	19640504

Probable Assignee: GEN ELECTRIC**Assignee(s):(std):** GEN ELECTRIC**Assignee(s):** GENERAL ELECTRIC CO ; GENERAL ELECTRIC COMPANY**Inventor(s):(std):** BAHRS DAVID L ; COULEUR JOHN F ; DAVID LEROY BAHRS ; GUDENSCHWAGER PHILIP F ; JOHN FRANCIS COULEUR ; PHILIP FRANCIS GUDENSCHWAGER ; SHELLY WILLIAM A ; WILLIAM ARNOLD SHELLY**Inventor(s):** ARNOLD SHELLY WILLIAM ; WILLIAM A SHELLY ; LEROY BAHRS DAVID ; PHILIP F GUDENSCHWAGER ; JOHN F COULEUR ; FRANCIS COULEUR JOHN ; FRANCIS GUDENSCHWAGER PHILIP ; DAVID L BAHRS**International class (IPC 8-9):** G06F13/12 G06F13/26 G06F15/00 G06F15/78 G06F9/48 (Advanced/Invention); G06F13/12 G06F13/20 G06F15/00 G06F15/76 G06F9/46 (Core/Invention)**International class (IPC 1-7):** G06F1/00 G06F15/00 G06F3/04 G06F5/06 G06F7/00 G06F9/00 G06F9/18**CPC:** G06F9/4812 G06F13/12 G06F13/26 G06F15/00 G06F15/78**European class:** G06F13/12 G06F13/26 G06F15/00 G06F15/78 G06F9/46C2 G06F9/48C2**US class:** 340/172.5 342/195 710/114 710/19 710/48 710/5 710/8 711/154 712/220 714/45[Classification Explorer](#)**Cited documents:** US3226691 A, US3178690 A,**Forward Citations:** US9128535, US8185879, US7886129, US7770156, US7698533, US7644319, US7412630, US7353500, US7287147, US7237090, US7231551, US7194599, US7185234, US7181728, US7178133, US7168066, US7159101, US7134116, US7124072, US7069544, US7055070, US7043668, US6157962, US5787304, US5321836, US5032984, US4991194, US4926313, US4507781, US4302808, US3934230, US3925766, US3895356, US3832692, US3806885, US3800287, US3760370, US3750107, US3746845, US3735357, US3706974, US3704453, US3676846, US3675217, US3643229, US3631404, US3626427, US3618039, US3611305, US3599162, US3573852, US3568162, US3514758, US3512136, US3487370, US3482265, US3432813, US3421150, US3419852, US3407391, US3396372, US3395394, US3368207, US2012185617, US2009037704, US2007192567, US2006225050, US2005273666, US2005038975, JP51094732, JP51061233, JP50011144, GB2225460,**Abstract:**

Source: US3471834A ABSTRACT OF THE DISCLOSURE

Input/output control apparatus for a data processing system, wherein the control apparatus relieves the data processor of the system of much of the burden of controlling input/output operations by supplying the necessary input/output command and related information to the processor when data must be transferred into or out of the system.

Title: MACHINE A ETIQUETER, PROCEDE D'ETIQUETAGE ET ETIQUETTE POUR CE DERNIER LABELING
MACHINE METHOD LABEL AND LABEL FOR SAME (Machine translation)

Priority: FR19620912160 19621012

Publication number	Publication date	Application number	Application date
FR1419570 A	19651203	FR19620912160	19621012

Probable Assignee: SOABAR CO

Assignee(s):(std): SOABAR CO ; SOABAR COMPANY

International class
(IPC 8-9): B65C5/00 (Advanced/Invention);
B65C5/00 (Core/Invention)

International class
(IPC 1-7): B65C5/06

CPC: B65C5/00

European class: B65C5/00

[Classification Explorer](#)

Forward Citations: FR2379440,

Abstract:

Source: FR1419570A (Claim 1) **ATTENTION** debut du champ CLMS peut contenir fin de DESC **.

Machine translation: (Claim 1) ** WARNING ** start of CLMS field may **contain** ** end of DESC.



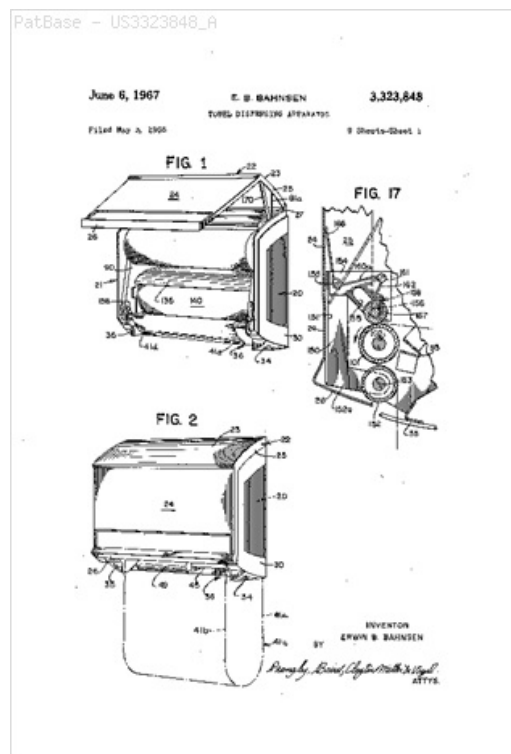
Title: TOWEL DISPENSING APPARATUS**Priority:** DK19660002244 19660502 NO19660162755 19660426 NO19690001162 19690320
US19650452571 19650503

Family:	Publication number	Publication date	Application number	Application date
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	AT291473 B	19710712	AT19690003600	19660503
	BE680436 A	19661103		19660503
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	CH439631 A	19670715	CH19660006372	19660503
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	DK130570 C	19750818	DK19660002244	19660502
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	DK130867 C	19750929	DK19720004554	19720915
	ES326242 A1	19670701	ES19660326242	19660502
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	NO123582 B	19711213	NO19660162755	19660426
	NO132461 B	19750811	NO19690001162	19690320
	NO132461 C	19751119	NO19690001162	19690320
	SE318074 B	19691201	SE19660006041	19660503
	SE326007 B	19700713	SE19660004672	19660406
	SE326007 B	19700713	SE19690004672	19690401
	US3323848 A	19670606	US19650452571	19650503

Probable Assignee: STEINER AMERICAN CORP**Assignee(s):(std):** STEINER AMERICAN CORP ; STEINER CO ; STEINER CO LAUSANNE S A ; STEINER CO LAUSANNE SA ; STEINER CO LAUSANNE S A LAUSANNE ZWITSERLAND ; STEINER CO LAUSANNE S A TE LAUSANNE ZWITSERLA**Assignee(s):** STEINER CO LAUSANNE S A TE LAUSANNE ZWITSERLAND ; STEINER CO LAUSANNE TE LAUSANNE ZWITSERLAND SA ; STEINER COLAUSANNE SA ; STEMCOR CORP ; STEINER CO LAUSANNE S A LAUSANNE SCHWEIZ**Inventor(s):(std):** BAHNE BAHNSEN ERWIN ; BAHNSEN E ; BAHNSEN E B ; BAHNSEN ERWIN B ; ERWIN B BAHNSEN ; B BAHNSEN ERWIN**Inventor(s):** ERWIN BAHNE BAHNSEN ; BAHNSEN ERWIN B HINSDALE ILL V ST A ; BAHNSEN ERWIN BAHNE**Agent(s):** S HOROWITZ AND CO**International class** A47K10/28 (Advanced/Invention);
(IPC 8-9): A47K10/24 (Core/Invention)**International class** A47K17/2? A47K10/26 A47K10/28 A47K10/32 A47K9/08
(IPC 1-7):**CPC:** A47K10/28**European class:** A47K10/28**US class:** 312/34.15[Classification Explorer](#)**Cited documents:** US3214226 A, US282452 A, US2265875 A, US2172482 A, US2170223 A, US2125604 A, US2117302 A, US1922845 A,**Forward Citations:** WO07035139, US8256644, US4848854, US4676559, US4573750, US4019773, US3971607, US3858951, US3637275, US3506320, US3502383, US2009302721, EP1053712, EP0252154, EP0138595, EP0138595, EP0138595, DE2305741,**Abstract:**

Source: GB1143948A 1,143,948. Roll **towel dispensers**. STEINER CO. LAUSANNE S.A. 28 April, 1966 [3 May, 1965], No. 18779/66. Heading A4G. A continuous **towel dispenser** in which a length of soiled **towel** is pulled out with clean **towel** against a weight held by brake means and released for retracting **towel** by timing means comprises a **container** 29, Fig. 5, with a lockable lid and front 23 within which are spaced brackets 50 on which is hung at 96 spaced mechanism carrying side plates 90 between which is a holder 133 from which clean **towel** from roll 132 passes over roller 141, to a frictional measuring roll 101 on which the **towel** is pressed when the front is shut by rollers 152a, 157 on the front. The **towel** passes around a central block 49 permitting only the sides of the clean **towel** to be grasped, the soiled **towel** passing along channel 35, through door 42, over brake roll 57 movable in bracket slot 56, under rolls 71, 72 carried on arms 62 pivoted to lever arms 60 pivoted on brackets 50, and over intermediate bracket roller 58, the arms 60, 62 being about half way down the casing back 29 as in Fig. 14. The **towel** then goes to a soiled **towel** roll 121 carried on upwardly sprung levers 116 within the side plates 90 whereby the roll is pressed against a drive roll 107 driven at the same peripheral speed by chain 112, on the casing side of the left-hand side plate, from the drive roll 101. On pulling clean **towel** at 49, cam 203, Fig. 14, on the casing side of the right-hand side plate, rotates with measuring roll 101 and shifts clockwise a stop plate 208 wobbling on pivot 205a so that timing suction cups 214, 215 are pressed together, a tooth on plate 208 engages a lead screw on the cam axis and moves towards the side plate until a stop dog 200 fixed to the screw abuts a stop 209 on plate 208 to prevent further withdrawal of **towel**, and a stop plate extension 212 lowers rod 240 and weighted and sprung lever 246 to bring a brake wheel 253 against brake roller 57 in such a way that roller 57 moves

clockwise to allow a length of soiled **towel** to be pulled out with the clean **towel** thereby lifting rollers 71, 72 on lever 62, but cannot rotate anticlockwise so that lever 62 is supported in its lifted position. On timing out of the cups 214, 215, spring 224 swings plate 208 anti-clockwise and away from the side plate to separate the cups and release brake wheel 253 whereby levers 60, 62 fall under gravity and pull the soiled **towel** into the casing. When all clean **towel** is used, the levers fall fully and the rollers 71, 72 approach door 42 and withdraw all soiled **towel**. On lifting the front and lid 23 a cord 81 lifts levers 60, 62 above the normal high position, roller 58 entering slot 70, whereby removal and re-threading of **towel** is facilitated and side plates with holder 133 lifted out to remove soiled and renew clean **towel** rolls.



Title: TREATMENT OF FABRIC WITH PERFUME/CYCLODEXTRIN COMPLEXES

Priority:

AU19660006428	19660601	CA19902013485	19900330	CA19902013486	19900330
IN1990DE00334	19900404	IN1990DE00335	19900404	EP19890900219	19881128
EP19890900219	19881128	FR19870016857	19871204	CA19902013487	19900330
US19890337036	19890412	US19890337037	19890412	US19910809184	19911217
US19940268157	19940629	US19910707266	19910524	US19950477338	19950607
US19950475307	19950607	US19950474859	19950607	US19950474599	19950607
US19960658329	19960605	US19900486757	19900306	KR19900005068	19900412
WO1988EP01088	19881128	WO1988DE01088	19881128		

Family:	Publication number	Publication date	Application number	Application date
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	AT124422 E	19950715	AT19900200839T	19900406
	AT127152 E	19950915	AT19900200837T	19900406
	AT79005 E	19920815	AT19880900219T	19881128
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	AU642866 B2	19931104	AU19900053172	19900411
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	CA2013485 C	19970422	CA19902013485	19900330
	CA2013486 AA	19901012	CA19902013486	19900330
	CA2013486 C	19991130	CA19902013486	19900330
	CA2013487 AA	19901012	CA19902013487	19900330
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	CN1045117 C	19990915	CN19901002680	19900412
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	CN1054605 A	19910918	CN19901002679	19900412
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	DE69009833 D1	19940721	DE19906009833	19900406
	DE69009833 T2	19941027	DE19906009833T	19900406
	DE69020408 D1	19950803	DE19906020408	19900406
	DE69020408 T2	19960104	DE19906020408	19900406
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	DE69021920 T2	19960502	DE19906021920T	19900406
	DK0392606 T3	19960115	DK19900200837T	19900406
	DK0392607 T3	19940704	DK19900200838T	19900406
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	EP0392608 B1	19950628	EP19900200839	19900406
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WO8905114 A1	19890615	WO1988EP01088	19881128
ZA8808776 A	19890830	ZA19880008776	19881123

Probable Assignee: PROCTER AND GAMBLE

Assignee(s):(std): BENVEGNU FERNANDO ; BRUCE PETER ; GARDLIK JOHN M ; PROCTER AND GAMBLE ; PROCTER AND GAMBLE CO ; RECKITT AND COLMAN ; PROCTER AND GAMBLE COMPANY THE ; RECKITT AND COLMAN MASSY ; RECKITT AND COLMANN PROD LTD ; TRINH TOAN ; RECKITT AND COLMANN SA ; RECKITT COLMAN SA ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY ; RECKITT AND COLMAN SA ; BANKS TODD J

Assignee(s): BANKS TODD JEFFREY ; THE PROCTER AND GAMBLE CO CINCINNATI OHIO US ; THE PROCTER AND GAMBLE CO CINCINNATI OHIO ; THE PROCTER AND GAMBLE COMPANY CINCINNATI OHIO US ; GARDLIK JOHN MICHAEL ; PROCTER AND GAMBLE CO CINCINNATI OHIO US ; RECKITT AND COLMAN S A MASSY ESSONNE FR ; RECKITT AND COLMAN MASSY ESSONNE FR ; PUROKUTAA ANDO GYANBURU CO ZA ; PROCTER AND GAMBLE CO THE ; RECKITT AND COLMAN S A ; PETER BRUCE

Inventor(s):(std): FERNANDO BENVEGNU ; GARDLIK JM ; JOHN MICHAEL GARDLIK ; TODD JEFFREY BANKS ; TRINH TOAN ; TOAN TRINH ; PEYRONNET DIDIER ; GARDLIK JOHN MICHAEL ; GARDLIK JOHN M ; BRUNET PHILIPPE ; BENVEGNU FERNANDO ; BANKS TODD JEFFREY ; BANKS TODD J ; TRINH TOAN NMN ; TOTSUDO JIEFURII BANKUSU ; TOD JEFRI BANKS ; TOAN TRINH ; TOAN TORIN ; PHILIPPE BRUNET ; JIYON MAIKERU GAADORITSUKU ; FERNANDO BENBEGNU ; DIDIER PEYRONNET ; BENVEGNU FERNANDO NMN ; GARDLIK J M ; FUERUNANDO BENBEENIYU

Inventor(s): FERNANDO NMN BENVEGNU ; BENVEGNU FERNANDO MAINEVILLE OHIO 45039 US ; BENVEGNU FERNANDO MAINEVILLE OHIO 45039 ; BANKS TODD JEFFREY WEST CHESTER OHIO 45069 US ; BANKS TODD JEFFREY WEST CHESTER OHIO 45069 ; GARDLIK JOHN MICHAEL CINCINNATI OHIO 45231 US ; GARDLIK JOHN MICHAEL CINCINNATI OHIO 45231 ; TOAN NMN TRINH ; TRINH TOAN MAINEVILLE OHIO 45039 US ; TRINH TOAN MAINEVILLE OHIO 45039 ; BRUNET PHILIPPE F 28000 CHARTRES FR ; PEYRONNET DIDIER 28630 BARJOUVILLES FR ; TOTSUDO JEFURII BANKUSU ; JON MAIKERU GAADORITSUKU ; FUERUNANDO BENBEENYU

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; PHILLIPS ORMONDE FITZPATRICK; KIRBY EADES GALE BAKER

Designated states: AT AU BE BR CH DE DK ES FI FR GB GR IT JP KR LI LU NL NO SE US

International class (IPC 8-9): A01N25/00 A23F3/00 A23F3/30 A23F3/40 A23F5/00 A23F5/36 A23F5/46 A23L1/00 A23L1/09 A23L1/22 A23L1/221 A23L1/222 A23L1/226 A23L1/231 A23L1/235 A23L1/39 A23L2/38 A23P1/04 A47L1/15 A47L13/17 A61F13/00 A61K47/26 A61K47/40 A61K47/48 A61K8/00 A61K8/18 A61K8/73 A61K9/14 A61L9/01 A61L9/12 A61Q13/00 A61Q19/00 A61Q5/12 C01B3/02 C08B37/00 C08F18/08 C08L5/16 C09K3/00 C11B9/00 C11D17/04 C11D3/00 C11D3/12 C11D3/20 C11D3/22 C11D3/30 C11D3/50 D06F25/00 D06F39/02 D06F58/02 D06M11/00 D06M11/79 D06M13/00 D06M13/02 D06M13/144 D06M13/165 D06M13/184 D06M13/188 D06M13/203 D06M13/224 D06M13/248 D06M13/256 D06M13/322 D06M13/463 D06M13/473 D06M13/51 D06M13/513 D06M15/03 D06M15/11 D06M23/00 D06M23/02 D06M23/08 D06M23/12 (Advanced/Invention); A61K47/48 A61K8/00 A61K8/18 A61Q13/00 C11D17/04 D06M101/00 D06M101/02 D06M101/06 D06M101/08 D06M101/16 D06M101/18 D06M101/30 D06M101/32 D06M15/03 (Advanced/Non-invention); A23L1/00 A23L1/22 A47L1/00 A47L13/16 A61K47/48 A61K8/00 A61K8/18 A61K8/72 A61L9/12 A61Q13/00 A61Q19/00 A61Q5/12 C01B3/00 C08B37/00 C08F18/00 C08L5/00 C11B9/00 C11D17/04 C11D3/00 C11D3/12 C11D3/22 C11D3/50 D06F25/00 D06F39/02 D06F58/02 D06M11/00 D06M13/00 D06M13/02 D06M13/165 D06M13/192 D06M13/224 D06M13/355 D06M13/463 D06M13/473 D06M15/00 D06M15/03 D06M15/03 D06M15/11 D06M23/00 D06M23/02 D06M23/08 D06M23/12 (Core/Invention); C11D17/04 (Core/Non-invention); A47L (Subclass/Invention)

International class (IPC 1-7): A01N25/00 A23F3/00 A23F3/30 A23F3/40 A23F5/00 A23F5/36 A23F5/46 A23L1/09 A23L1/22 A23L1/221 A23L1/222 A23L1/226 A23L1/231 A23L1/235 A23L1/39 A23L2/38 A47L1/15 A47L13/17 A61F13/00 A61F13/15 A61K47/26 A61K47/40 A61K47/48 A61K7/00 A61K7/46 A61K9/14 A61K9/18 A61K9/62 A61L9/01 A61L9/01 A61L9/12 C01B3/02 C08B37/16 C08B7/26 C08L5/16 C09K3/00 C09K3/16 C09K9/00 C11B9/00 C11D17/00 C11D17/04 C11D17/04 C11D3/12 C11D3/20 C11D3/22 C11D3/30 C11D3/50 D06B3/10 D06F25/00 D06F39/02 D06F58/02 D06M11/79 D06M13/00 D06M13/148 D06M13/165 D06M13/192 D06M13/224 D06M13/355 D06M13/463 D06M13/473 D06M15/00 D06M15/03 D06M15/03 D06M15/11 D06M23/00 D06M23/02 D06M23/08 D06M23/12

CPC: C08F18/08 A47L1/15 A47L13/17 C11D17/049 A23P10/30 A23L27/70 C11D17/041 A61Q15/00 A61K8/738 A61K2800/412 A61K2800/56 A61Q13/00 C11D3/001 C11D3/126 C11D3/222 C11D3/505

C11D17/044 C11D17/047 A61Q19/00 B82Y5/00 C08B37/0015 C11D3/221 C11D17/046 D06M13/005 D06M15/03 A61F13/51113 A61F2013/51117 A61K47/6951

European class:

A23L1/00P4 A23L1/22B A23P1/04 A47L1/15 A47L13/17 A61K47/48W18B A61K8/73T A61Q13/00 A61Q15/00 A61Q19/00 B82Y5/00 C08B37/00M2B2 C08F18/08 C11D17/04B C11D17/04B2S C11D17/04B4 C11D17/04B6 C11D17/04F C11D3/00B3 C11D3/12G2D1 C11D3/22B C11D3/22E C11D3/50B2 D06M13/00P D06M15/03 K61F13/511C1 K61K201/101 K61K201/40 K61K800/412 K61K800/56 K61Q15/00

US class:

252/174.11 252/8.6 252/8.7 252/8.75 252/8.8 252/8.9 424/401 424/418 424/461 424/488 424/493 424/499 426/650 427/394 510/101 510/322 510/327 510/331 510/332 510/515 510/516 510/517 510/519 510/520 512/3 512/4 536/103

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Abstract:

Source: US5094761A An effective amount of perfume/cyclodextrin complex is applied to fabric that is preferably at least partially wetted. A preferred method applies said complex to said fabric in an automatic laundry dryer. The perfume/cyclodextrin complexes are preferably incorporated into solid, dryer-activated, fabric treatment (conditioning) composition, preferably **containing** fabric softeners, more preferably cationic and/or nonionic fabric softeners. The complexes provide fabrics with perfume benefits when they are rewetted after drying. Volatile perfume materials, including those materials that are commonly associated with "freshness" can be applied to the fabrics in an effective way. Clay provides protection for said perfume/cyclodextrin complexes, especially when certain materials like some nonionic fabric softeners and/or fatty acids are present and in contact with said perfume/cyclodextrin complexes.

END

Title: OPTICALLY ANISOTROPIC AROMATIC POLYAMIDE DOPES

Priority: AU19740071905 19740731 BE19680714474 19680430 DE19671745254 19670607
 GB19690029772 19690612 LU19680056065 19680513 NL19670008163 19670613
 US19700030089 19700420 US19730331322 19730209 US19710178184 19710907
 US19780951051 19781012 US19690827345 19690523 US19670644851 19670609
 US19680736410 19680612 US19660556934 19660613

Family:	Publication number	Publication date	Application number	Application date
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	AU473242 B2	19760617	AU19740071905	19740731
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	ES368172 A1	19720401	ES19690368172	19690609
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	JP50008474 B4	19750404	JP19690045474	19690611
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	LU56065 A	19680904	LU19680056065	19680513
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	NL6708163 A	19681216	NL19670008163	19670613
	NL6908984 A	19691216	NL19690008984	19690612
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	US3888965 A	19750610	US19730331322	19730209
	USRE30352 E	19800729	US19780951051	19781012

Probable Assignee: DU PONT**Assignee(s):(std):** DU PONT ; DU PONT DE NEMOURS E I AND CO ; E I DU PONT DE NEMOURS AND COMPANY WILMINGTON DELA**Assignee(s):** E I DU PONT DE NEMOURS AND COMPANY WILMINGTON DELAWARE VER ST V AM ; E I DUPONT DE NEMOURS AND CO ; EI DU PONT DE NEMOURS AND CO ; EI DU PONT DE NEMOURS AND CO US ; EIDU PONT DE NEMOURS AND CO ; DU PONT DE NEMOURS EI AND CO ; DUPONT DE NEMOURS ; E I DU PONT DE NEMOURS AND CO ; E I DU PONT DE NEMOURS AND CO 19898 WILMINGTON DEL US ; E I DU PONT DE NEMOURS AND CO WILMINGTON DEL V ST ; E I DU PONT DE NEMOURS AND CO WILMINGTON DEL V ST A ; E I DU PONT DE NEMOURS AND COMPANY**Inventor(s):(std):** LOUISE KWOLEK STEPHANIE ; LOUISE KWOLIK STEPHANIE ; STEPHANIE LOUISE KWOLEK ; KWOLEK STEPHANIE LOUISE ; KWOLEK STEPHANIE ; KWOLECK S**Inventor(s):** E I DU PONT DE NEMOURS AND CO ; KWOLECK S US ; KWOLEK STEPHANIE LOUISE WILMINGTON DEL V ST A ; KWOLEK STEPHANIE WILMINGTON DEL V ST A ; KWOLEK STEPHANIE LOUISE WILMINGTON DEL

International class (IPC 8-9): C08G69/12 C08G69/32 C08G69/36 C08G73/08 C08G73/14 C08J3/02 C08J3/09 C08J5/24 C08K3/16 C08K3/30 C08K5/16 C08K5/42 C08L77/00 C08L77/10 C09D177/10 C09J7/00 D01D5/04 D01D5/06 D01F6/60 (Advanced/Invention); C08G69/00 C08G73/00 C08J5/24 C08K3/00 C08K5/00 C08L77/00 C09D177/00 C09J7/00 D01D5/00 D01D5/06 D01F6/60 (Core/Invention)

International class (IPC 1-7): B29C25/00 B29D C08G20/02 C08G20/04 C08G20/20 C08G20/38 C08G41/00 C08G41/02 C08G51/22 C08G51/44 C08G51/46 C08G51/50 C08G69/12 C08G69/36 C08G73/06 C08G73/08 C08G73/14 C08J3/02 C08J5/18 C08K3/00 C08K3/16 C08K3/30 C08K5/00 C08K5/20 C08K5/21 C08K5/42 C08L77/00 C08L77/10 D01D5/04 D01D5/06 D01F6/60 D01F6/80 D01F6/90 D01F7/00 D06M15/00

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US class: 152/556 264/184 264/205 264/210.5 264/210.6 264/210.8 264/235 264/235.6 264/289.6 264/342RE

264/346 524/104 524/157 524/165 524/210 524/211 524/220 524/225 524/233 524/419 524/422
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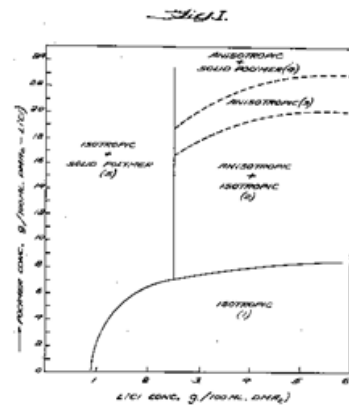
Abstract:

Source: US3671542A Compositions or dopes comprising carbocyclic aromatic polyamides in suitable liquid media are prepared which are optically anisotropic (exhibit different light transmission properties in different directions in the dope). These dopes, and related isotropic dopes, are used in preparing fibers of unique internal structure (evidenced by low orientation angle and/or high sonic velocity) and exceptionally high tensile properties (e.g., initial modulus).

PATENTED JUN 20 1971

SHEET 1 OF 9

3,671,542

INVENTOR
STEPHANIE LOUISE KWOLEKBY *Emory Barham*
ATTORNEY

Title: AQUEOUS LATICES OF HIGH POLYMER COMPOSITIONS AND PROCESSES FOR PRODUCING SAME

Priority: BE19690743808 19691229 DE19691965934 19691222 FR19710041778 19711123
 GB19690060824 19691212 GB19710054789 19711125 GB19720003913 19720127
 FR19720004740 19720211 US19670621994 19670309 US19670621997 19670309
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: EXXON RESEARCH ENGINEERING CO

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Assignee(s): OLIVER WALLIS BURKE JR FORT LAUDERDALE FLORIDA VER ; EXXON RESEARCH AND ENGINEERING CO LINDEN N J V ST A ; OLIVER WALLIS BURKE JR FORT LAUDERDALE FLORIDA VER ST V AM ; EXXON RESEARCH AND ENGINEERING CO TE LINDEN NEW JERSEY VER ST V AM ; ESSO RESEARCH ; ESSO RESEARCH AND ENGINEERING CY LINDEN NEW JERSEY E U A ; ESSO RESEARCH AND ENGINEERING CY LINDEN NEW JERSEY EUA ; OLIVER W BURKE JR ; WHIRLPOOL CORP ; EXXON RESEARCH AND ENGINEERING CO ; EXXON RESEARCH AND ENGINEERING CO LINDEN N J V ST ; EXXON RES AND ENG CO ; EXXON RESEARCH ENG CO ; BURKE O US ; ESSO RES AND ENG CO US ; ESSO RESEARCH ENG CO ; BURKE JUN OLIVER WALLIS DR PHIL ; BURKE JR OLIVER W ; BURKE JUN

Inventor(s):(std): BOOTS IRA J ; BURKE JR DECEASED OLIVER W ; BURKE JR OLIVER W ; BURKE JUN OLIVER W ; BURKE JUN OLIVER WALLIS DR ; BURKE O ; BURKE OLIVER W JR ; METZ JOHN JR ; METZ JR JOHN ; ORIBAA DABURYUU BAAKU JUNIA ; PARIS MAURICE H ; WALLIS DR PHIL BURKE JUN OLIVE

Inventor(s): WALLIS DR PHIL BURKE JUN OLIVER ; WALLIS DRPHIL BURKE JUN ; W BURKE JUN ; W BURKE JUN OLIVER ; WALLIS DR PHIL BURKE JUN ; OLIVER W BURKE JR ; JR JOHN METZ ; BURKE O US ; BURKE

**International class
(IPC 8-9):**

B01D1/14 B01D1/16 B01D19/00 B01D3/34 B01D47/00 B01F17/00 B01F3/12 B01F5/04 B01F7/00
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C08J3/21 C08J3/26 (Advanced/Invention);
B01F3/04 B01F5/00 (Advanced/Non-invention);
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B21G3/00 C08F2/00 C08F2/12 C08F291/00 C08J3/02 C08J3/20 (Core/Invention);
B01F3/04 B01F5/00 (Core/Non-invention)

**International class
(IPC 1-7):**

B01D1/00 B01D1/14 B01D1/16 B01D1/22 B01D3/34 B01D47/00 B01D47/06 B01D47/10 B01F11/02
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European class:

B01D1/14 B01D1/16 B01D19/00S B01D3/34B B01D47/00 B01F17/00Z B01F3/12P B01F5/04
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US class:

106/277 159/0.6R 159/1.6S 159/13.1 159/16.3 159/17.1 159/17.3 159/28.6 159/4.09 159/4.2 159/4.4
159/43.2 159/6.1 159/DIG.10 204/159.15 252/35.9A 252/359A 252/359D 259/7 260/29.6 260/29.6PM
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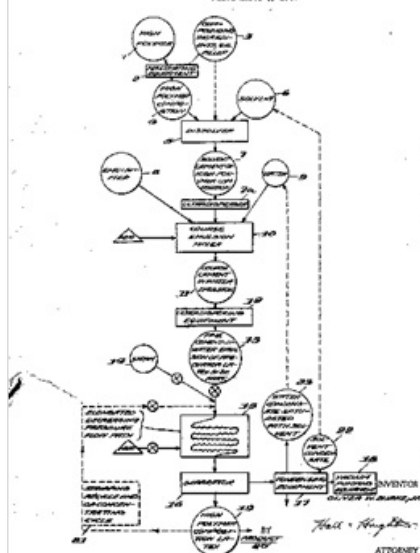
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EP1840153, EP1743913, EP1698671, EP1697457, EP1262510, EP0830425, EP0285771, EP0039126,
EP0039126, EP0039126, DE2130341,

Abstract:

Source: US3503917A ABSTRACT OF THE DISCLOSURE The preparation of aqueous latices from solvent dispersions of elastomers and .other high polymer compositions has presented problems including foaming and coag- ulation which have produce losses and increased costs. Herein combinations of steps are disclosed which reduce or eliminate various of these problems; enable the preparation of latices from high solids, high viscosity cements; enable preparation of latices of Aller extended and Aller 20 reinforced elastomers; and enable the preparation of latices both dilute and of high solids continent, which are useful for example for adhesive and film forming purposes. n^Λ—1 ȧ0 B

March 31, 1970 C. W. BURKE, JR. 3,503,917
AQUEOUS LATIONS OF HIGH POLYMER COMPOSITIONS AND PROCESSES
FOR PRODUCING SAME
Filed March 6, 1967



Title: CONTAINER AND DISPENSING MECHANISM FOR TONER POWDER

Priority: US19680725783 19680501 US19680725785 19680501 US19680725810 19680501

Family:

Publication number	Publication date	Application number	Application date
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GB1272273 A	19720426	GB19690022245	19690501
JP49016818 B4	19740425	JP19690032815	19690430
US3501065 A	19700317	US19680725810	19680501
US3539077 A	19701110	US19680725783	19680501
US3561647 A	19710209	US19680725785	19680501

Probable Assignee: EASTMAN KODAK CO

Assignee(s):(std): EASTMAN KODAK CO

Assignee(s): EASTMAN KODAK CO ROCHESTER N Y V ST A ; EASTMAN KODAK COMPANY ; EASTMAN KODAK CY

Inventor(s):(std): DREXLER ROGER A ; DREXLER ROGER ARTHUR ; LEENHOUTS DONALD D ; LEENHOUTS DONALD DREW ; MICHATEK STEPHEN F ; MICHATEK STEPHEN FRANK ; ALTMANN CONRAD ; FRANK MICHATEK STEPHEN ; DREW LEENHOUTS DONALD ; ARTHUR DREXLER ROGER

Inventor(s): DONALD DREW LEENHOUTS ; DREXLER ROGER ARTHUR RUSH ; CONRAD ALTMANN ; DONALD D LEENHOUTS ; ROGER A DREXLER ; STEPHEN F MICHATEK ; STEPHEN FRANK MICHATEK ; ROGER ARTHUR DREXLER

International class
(IPC 8-9): G03G15/08 (Advanced/Invention);
G03G15/08 (Core/Invention)

International class
(IPC 1-7): B67B7/00 B67B7/24 B67D5/06 G01F11/00 G03G15/00 G03G15/08

CPC: G03G15/0822 Y10S222/01 G03G15/0877 G03G15/0865 G03G15/0882 G03G15/0884

European class: G03G15/08H G03G15/08H3P G03G15/08H3R

US class: 222/179.5 222/363 222/392 222/405 222/82 222/DIG.1

[Classification Explorer](#)

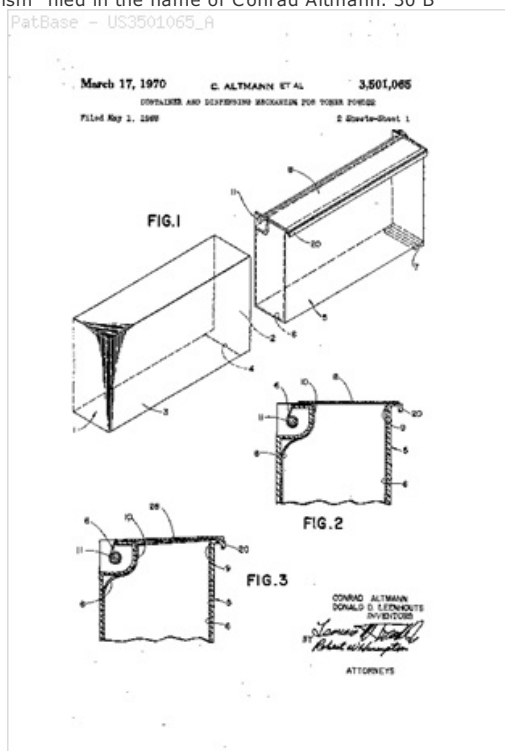
Cited documents: US993579 A, US906037 A, US3249266 A, US3170382 A, US3134849 A, US2449395 A, US1987387 A,

Forward Citations: USD723943, US5392963, US5341196, US5260749, US4937628, US4920381, US4860056, US4797704, US4523834, US4491161, US4478512, US4456154, US4315581, US4089601, US4065335, US4062385, US4017005, US3999654, US3755921, JP50074347, EP1560076, EP1560076, EP1560076, EP0133901, EP0131697, EP0102002, EP0097441, EP0097441, EP0070731, EP0029918, DE4135137, DE4134997, DE3011938,

Abstract:

Source: US3501065A ABSTRACT OF THE DISCLOSURE

A toner **container** and **dispenser** usable with electrographic apparatus has an outer **cover** from which an inner **container** is mechanically slid to a **dispensing** position. The inner **container** has an inside lining restricting the volume of toner in the **container** and a shaft for tak-ing up the lining thereby making the toner available for **dispensing**. A rupturable **seal** is also linked to the shaft to enable **opening** of the **container** as the shaft is turned. After the **container** is empty, it is slid back into the still-clean **cover** for removal. CROSS-REFERENCE TO RELATED APPLICATION Reference is made to commonly assigned cofiled U.S. patent application Ser. No. 725,785, entitled "Loading Mechanism" filed in the name of Conrad Altmann. 30 B



Title: PHOTOGRAPHIC COLOR DIFFUSION TRANSFER PROCESS AND FILM UNIT FOR USE THEREIN

Priority: DE19691966865 19690513 US19680728535 19680513 US19700039666 19700522
 US19700039646 19700522 US19690815585 19690414 US19680728538 19680513
 US19710159207 19710702 US19710159254 19710702 US19710203731 19711201
 US19720246563 19720424

Family:	Publication number	Publication date	Application number	Application date
	BE732985 A	19691113		19690513
	CA962501 A1	19750211	CA19730169123	19730419
	CA972204 A1	19750805	CA19720157604	19721127
	DE1924430 A1	19700618	DE19691924430	19690513
	DE1924430 B2	19741017	DE19691924430	19690513
	DE1924430 C3	19880929	DE19691924430	19690513
	DE1966865 A1	19760115	DE19691966865	19690513
	DE2258456 A1	19730607	DE19722258456	19721129
	DE2258456 C2	19820408	DE19722258456	19721129
	DE2320163 A1	19731031	DE19732320163	19730419
	DE2320163 C2	19831013	DE19732320163	19730419
	FR2008425 A1	19700123	FR19690015514	19690513
	FR2008425 B1	19730316	FR19690015514	19690513
	FR2169801 A2	19730914	FR19720042674	19721130
	FR2169801 B2	19760604	FR19720042674	19721130
	FR2182025 A2	19731207	FR19730014844	19730424
	FR2182025 B2	19761112	FR19730014844	19730424
	GB1269805 A	19720406	GB19690024292	19690513
	GB1418297 A	19751217	GB19720055686	19721201
	GB1432831 A	19760422	GB19730019004	19730419
	IT1046484 A	19800630	IT19730049618	19730420
	IT1052121 A	19810620	IT19720054371	19721129
	IT965530 A	19740211	IT19690037734	19690607
	JP1045523 C3	19810528	JP19730044986	19730420
	JP1247879 C3	19850116	JP19820000547	19820105
	JP48033697 B4	19731016	JP19690036952	19690513
	JP48064931 A2	19730907	JP19720120281	19721130
	JP49022939 A2	19740228	JP19730044986	19730420
	JP54036850 B4	19791112	JP19730044986	19730420
	JP57164733 A2	19821009	JP19820000547	19820105
	JP59024407 B4	19840609	JP19820000547	19820105
	NL161894 B	19791015	NL19690007376	19690513
	NL161894 C	19841016	NL19690007376	19690513
	NL6907376 A	19691117	NL19690007376	19690513
	US3594164 A	19710720	US19700039666	19700522
	US3594165 A	19710720	US19700039646	19700522
	US3689262 A	19720905	US19710159254	19710702
	US3701656 A	19721031	US19710159207	19710702
	US3761271 A	19730925	US19710203731	19711201
	US3765887 A	19731016	US19720246563	19720424

Probable Assignee: POLAROID CORP

Assignee(s):(std): POLAROID CORP ; POLAROID CORP US ; POLAROID TE CAMBRIDGE MASSACHUSETTS VE CORP ; POLAROID CAMBRIDGE MASSACHUSETTS VER S CORP

Assignee(s): POLAROID CAMBRIDGE MASSACHUSETTS VER ST V AM CORP ; POLAROID TE CAMBRIDGE MASSACHUSETTS VER ST V AM CORP ; ROGERS HOWARD G ; POLAROID CORP 02139 CAMBRIDGE MASS US ; POLAROID CORP CAMBRIDGE MASS US ; POLAROID CORP CAMBRIDGE MASS V ST A

Inventor(s):(std): GARDNER ROGERS HOWARD ; HAWAADO GAADONAA ROJAAZU ; HAWAADO GAADONAA ROJIYAAZU ; ROGERS HOWARD G ; ROGERS HOWARD GARDNER ; ROGERS H

Inventor(s): ROGERS H US ; ROGERS HOWARD GARDNER WESTON MASS ; ROGERS HOWARD GARDNER WESTON MASS US ; ROGERS HOWARD GARDNER WESTON MASS V ST A ; ROGERS HOWARD GARDNER WESTON MASS VSTA ; HOWARD G ROGERS

International class (IPC 8-9): G03C3/00 G03C7/00 G03C8/42 G03C8/44 G03C8/48 G03C8/52 G03D9/02 (Advanced/Invention); G03C3/00 G03C8/00 G03D9/00 (Core/Invention)

International class (IPC 1-7): G03B17/52 G03C1/00 G03C1/40 G03C1/48 G03C3/00 G03C5/54 G03C7/00 G03D5/00 G03D9/02

CPC: G03C8/44 G03D9/025 G03C8/52

European class: G03C8/44 G03C8/52 G03D9/02C

US class: 430/207 430/212 430/216 430/220 430/236 96/3 96/77

[Classification Explorer](#)

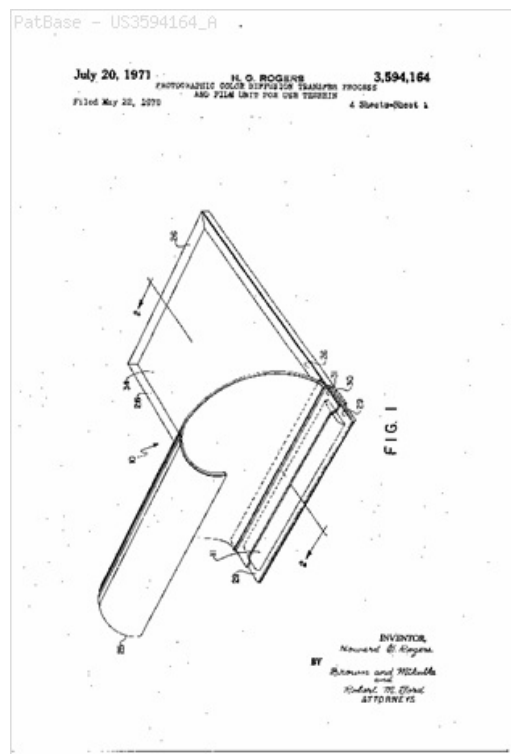
Cited documents: US3680456 A, US3594164 A, US3415646 A, US3415645 A, US3415644 A, US3376137 A, US3362819 A, US3325283 A, US3053659 A, US2983606 A, JP47002325 A2, JP45039235 A2, JP43026690 A2, JP41012184 A2, JP41011907 A2, DE2052145 A1, DE1962836 A1, DE1914033 A1, DE1213732 B, DE1147116 B,

Forward Citations: WO9510070, US6671032, US6565271, US5633114, US5264322, US5187282, US5176972, US4987441, US4972224, US4956665, US4649095, US4548898, US4541704, US4489152, US4484808, US4395102, US4392732, US4389110, US4387978, US4288524, US4269916, US4216018, US4179538, US4154610, US4138254, US4100559, US3993488, US3948662, US3893854, US3888669, US3836365, US3765885, US2005164117, JP60193082, JP59179100, JP59122464, JP50023882, JP49048327, JP49022939, GB2189331, GB2189331, FR2443082, FR2443081, EP1935918, EP0085002, EP0055858, EP0042081, EP0001352, DE3048166, DE2841705, DE2841323, DE2413981, DE2102425,

Abstract:

Source: US3594164A ABSTRACT OF THE DISCLOSURE

The present invention relates to a composite photo-graphic diffusion transfer color process film unit which comprises a photosensitive laminate including a dimensionally stable transparent support carrying a dyeable polymeric layer, a processing composition permeable opaque layer, and a photosensitive Silver halide layer having associated therewith a dye transfer image-forming material; a dimensionally stable sheet adapted to be super-posed substantially coextensive the surface of the laminate opposite the transparent support, and a **container** retaining a processing composition adapted to discharge its contents on the surface of the laminate opposite the transparent support and between the laminate and super-posed sheet; and to specified color diffusion transfer processes employing such film unit.



Title: CONTROLS FOR LAWN SPRINKLING SYSTEMS AND THE LIKE

Priority: US19650456787 19650518 US19700018829 19700212 US19720272793 19720718
US19720322384 19720110 US19730322384 19730110 US19730413255 19731106
US19760676877 19760414 US19750625350 19751023 US19770854326 19771123
US19790024685 19790328 US19740466693 19740503

Family:	Publication number	Publication date	Application number	Application date
	US3500844 A	19700317	US19650456787	19650518
	US3809116 A	19740507	US19730322384	19730110
	US3848616 A	19741119	US19720272793	19720718
	US3888275 A	19750610	US19730413255	19731106
	US3915185 A	19751028	US19740466693	19740503
	US4014359 A	19770329	US19750625350	19751023
	US4061893 A	19771206	US19760676877	19760414
	US4246574 A	19810120	US19770854326	19771123
	USRE31204 E	19830412	US19790024685	19790328

Probable Assignee: SANTRON CORP

Assignee(s):(std): GEORGE E SANNER ; SANNER GEORGE E ; SANTRON CORP

Assignee(s): SANTRON CORP US

Inventor(s):(std): SANNER G ; SANNER GEORGE E

Inventor(s): GEORGE E SANNER ; SANNER G US

International class (IPC 8-9): A01G25/16 B01D53/26 G01F23/24 G05D9/12 H01H9/04 H02G3/14 (Advanced/Invention); A01G25/16 B01D53/26 G01F23/24 G05D9/00 H01H9/04 H02G3/14 (Core/Invention)

International class (IPC 1-7): A01G25/00 A01G25/16 E03B11/16 F16K17/36 F16K21/18 G05D9/12 G08B21/00 H01H35/18 H01H43/00 H01H43/02 H01H7/00

CPC: Y10T137/1866 Y10T137/731 Y10T137/7313 Y10T137/86421 Y10T137/189 Y10T137/7043 A01G25/167 Y10T137/7303 Y10T137/8342 Y10T137/1939 Y10T137/7306 Y10T307/779 Y10T137/6966 A01G25/16 H02G3/14 A01G25/165 B01D53/26 G01F23/241 G05D9/12 H01H9/04 Y10T307/957 Y02A40/232

European class: A01G25/16 A01G25/16C A01G25/16D B01D53/26 G01F23/24A G05D9/12 H01H9/04 H02G3/14

US class: 137/356 137/377 137/39.1 137/391 137/392 137/393 137/395 137/558 137/624.15 137/7.8 137/78 137/78.2 137/78.3 137/78.5 200/302.3 200/38D 200/61.05 220/326 239/63 239/70 307/118 307/141.4 340/527 340/602 4/507 73/304R

[Classification Explorer](#)

Cited documents: US4014359 A, US3915185 A, US3864539 A, US3848616 A, US3759286 A, US3672391 A, US3573343 A, US3500844 A, US3483673 A, US3407997 A, US3361356 A, US3359766 A, US3339578 A, US3334651 A, US3283781 A, US3233619 A, US3212714 A, US3181557 A, US3118606 A, US2986167 A, US2786596 A, US2754150 A, US2751915 A, US2735907 A, US2708945 A, US2627015 A, US2599862 A, US2213961 A, US2192578 A, US1961181 A, US1346898 A, US1300712 A, US1285986 A, US1119968 A,

Forward Citations: WO9306709, WO11121614, WO11121614, WO05036949, WO05036949, USRE31204, USD692325, USD691243, US9849476, US9501072, US9169670, US8881759, US8866624, US8746590, US8695902, US8640509, US8573992, US8043768, US7997294, US7832659, US7633017, US7606637, US7532954, US7325567, US7229026, US7028700, US6824068, US6688327, US6543480, US6337635, US6016971, US5921280, US5908157, US5853122, US5841028, US5725761, US5671761, US5650564, US5560542, US5452747, US5400815, US5375617, US5365617, US5355122, US5337777, US5321578, US5278749, US5248124, US5241978, US5203038, US5195720, US5193570, US4973325, US4970356, US4952868, US4921001, US4919165, US4857112, US4853558, US4837499, US4797820, US4785843, US4718446, US4716605, US4663540, US4635723, US4633905, US4613764, US4541446, US4527297, US4488568, US4396149, US4333490, US4324268, US4322713, US4322297, US4304989, US4265598, US4246574, US4180087, US4130382, US4092860, US4061893, US4042984, US3865138, US3809116, US3794847, US2015176742, US2014239740, US2012190226, US2011215168, US2011011949, US2010231388, US2010168702, US2010168694, US2010024295, US2009025975, US2008237511, US2008230624, US2008033601, US2007244576, US2007233420, US2007190388, US2007023650, US2007010915, US2006118200, US2006014062, US2005082382, US2005005811, US2003172668, US2002017318, GB2287538, GB2287538, FR2775361, FR2636205, FR2509127, EP3225103, EP2857729, EP1818654, EP0939352, CN102385788, AT388056,

Abstract:

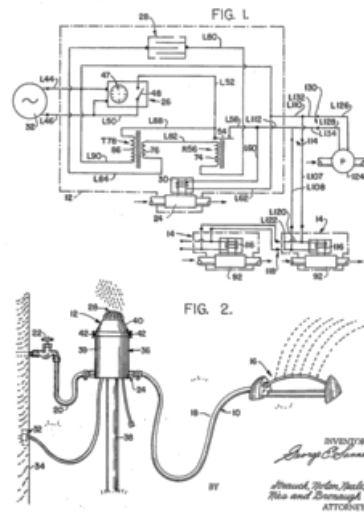
Source: US3500844A ABSTRACT OF THE DISCLOSURE

A lawn sprinkling system or the like including at least one solenoid actuated flow valve for controlling the flow of water to a sprinkling device, timer mechanism for regulating the operation of said valve and the flow of water therethrough, and an override arrangement for effecting the closing of said valve during periods of actual rainfall and for automatically restoring the operation of the valve to the control of the timer mechanism when the rainfall ceases.

March 17, 1970 G. E. SANNER 3,500,844

CONTROLS FOR LAWN SPRINKLING SYSTEMS AND THE LIKE

Filed May 18, 1965 3 Sheets-Sheet 1



Title: TOWELING DISPENSER WITH LOOP CONTROL

Priority: AT19690010500 19691107 DE19691956819 19691107 ES19690373335 19691107
 DK19690005759 19691031 FR19690038533 19691107 NO19690004311 19691030
 US19680727157 19680507 SE19690015053 19691103

Family:	Publication number	Publication date	Application number	Application date
	AT303303 B	19721127	AT19690010500	19691107
	DE1956819 A1	19710819	DE19691956819	19691107
	DE1956819 B2	19731004	DE19691956819	19691107
	DE1956819 C3	19740509	DE19691956819	19691107
	DK127675 B	19731217	DK19690005759	19691031
	ES373335 A1	19720116	ES19690373335	19691107
	FR2070270 A5	19710910	FR19690038533	19691107
	NO132462 B	19750811	NO19690004311	19691030
	NO132462 C	19751119	NO19690004311	19691030
	SE328979 A	19720321	SE19690015053	19700226
	SE328979 B	19700928	SE19690015053	19691103
	US3502383 A	19700324		19680507

Probable Assignee: STEINER AMERICAN CORP**Assignee(s):(std):** STEINER CO LAUSANNE SA ; STEINER AMERICAN CORP**Assignee(s):** STEINER CO LAUSANNE S A ; STEINER CO LAUSANNE S A LAUSANNE SCHWEIZ ; STEINER COMPANY LAUSANNE S A ; STEINER COMPANY LAUSANNE SA ; STEINER CY LAUSANNE**Inventor(s):(std):** B BAHNSEN ERWIN ; BAHNSEN E ; BAHNSEN E B ; BAHNSEN ERWIN B ; BAHNSEN ERWIN D ; STEINER R ; STEINER R L ; STEINER ROBERT L ; L STEINER ROBERT**Inventor(s):** ROBERT L STEINER ; ROBERT LELAND STEINER ; STEINER ROBERT L WILMETTE ; BAHNSEN ERWIN D HINSDALE ; ERWIN B BAHNSEN ; ERWIN BAHNE BAHNSEN

International class (IPC 8-9): A47F1/08 A47K10/28 (Advanced/Invention);
 A47F1/00 A47K10/24 (Core/Invention);
 A47K (Subclass/Invention)

International class (IPC 1-7): A47F1/08 A47K10/00 A47K10/28

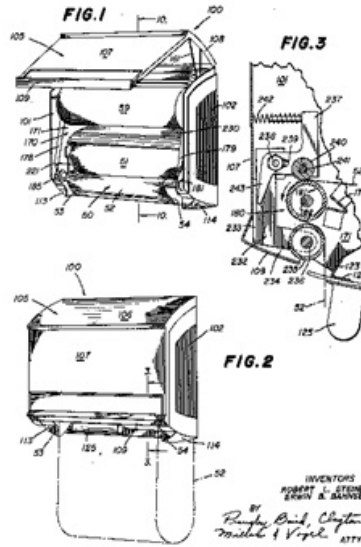
CPC: A47K10/28**European class:** A47K10/28**US class:** 312/34.15 312/38[Classification Explorer](#)**Cited documents:** US3323848 A, US3265454 A, US3215481 A, US3198591 A, US2899251 A,**Forward Citations:** US5244263, US4818042, US3893738, US3858953,**Abstract:**

Source: DE1956819A1 (Claim 1) Patent ansprueche 1.' Einrichtung zum Ausgeben von Abschnitten eines fortlaufenden Handtuches mit einem Gehaeuse und mit einer Handtuchschleife, die sich laengs eines Ausgangspfad es von einer sauberesHandtuch enthaltenden Vorratsrolle aus im Gehaeuse zu einer freiliegenden Gebrauchsstelle ausserhalb des Gehaeuses er streckt und einem Benutzer zugaenglich ist, und die sich ueber einen Rueckkehrpfad zu einer im Gehaeuse befindlichen Aufbewahrungsstelle fuer das benutzte Handtuch erstreckt, welche Einrichtung aufweist eine im Gehaeuse angeordneteAusgabevorrichtung zum Ausgeben einer Laenge des reinen Hand tuches vom Vorrat aus in die Handtuchschleife laengs desAusgangspfad es und zu einer ausserhalb des Gehaeuses gelege nen Gebrauchs stelle, wenn ein Benutzer am zugaenglichen Teil der Handtuchschleife ein- Zug ausuebt, eine im Gehaeuse ange ordnete Aufnahm evorrichtung zum Aufnehmen der Schleife des benutzten Handtuches ueber den Rueckkehrpfad und zum Befoerdern des benutzten Handtuches zur Aufbewahrungsstelle im Gehaeuse, und eine Antriebsvorrichtung, die die Ausgabevorrichtung mit der Aufnahm evorrichtung verbindet, dadurch gekennzeichnet, dass zum Aufrechterhalten einer Konstanten Laenge des Hand tuches in der freiliegenden Handtuchschleife die Antriebs vorrichtung in Abhaengigkeit von der genannten Handtuchlaenge eine vorherbestimmte Handtuchlaenge in der Handtuchschleife dadurch aufrechterhaelt, dass die Aufnahm evorrichtung ver anlasst wird, eine groessere Menge Handtuch aufzunehmen als von der Ausgabevorrichtung ausgegeben wird, wenn die Laenge des Handtuches in der Handtuchschleife groesser als die vor herbestimmte Laenge ist, und eine kleinere Menge Handtuch aufzunehmen, als von der Ausgabevorrichtung ausgegeben wird, wenn die Laenge des Handtuches in der Handtuchschleife klei ner als die vorherbestimmte Laenge ist, 2o Einrichtung nach Anspruch 1, wobei die Ausgabevorrichtung eine mit einem Reibbelag versehene Messrolle und die Auf nahm evorrichtung eine mit einem Reibbelag versehene und an der Aufbewahrungsrolle anliegende Aufnahm eantriebsrolle aufweist, dadurch gekennzeichnet, dass die Messrolle die selbe Winkelgeschwindigkeit aufweist wie die Aufnahm eantriebsrolle, und dass die Aufnahm eantriebsrolle mit derReibflaeche einen groesseren Durchmesser aufweist als die Mess rolle, so dass vom Handtuch eine groessere Laenge aufgenommen als ausgegeben wird.3.

March 24, 1970 R. L. STEINER ET AL 3,502,383

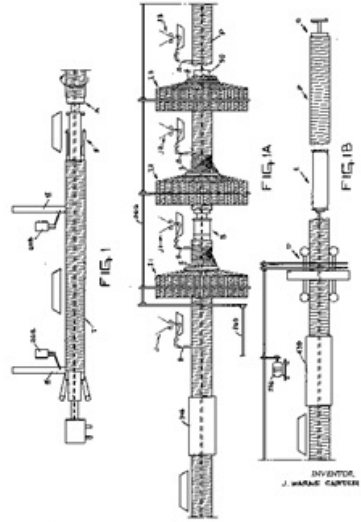
FORWARDING SCHEDULES WITH LOSS CONTROL.

Filed May 7, 1960

13. **Starte-Datei:** 1

Title:	DEVICE FOR ADVANCING AND ROTATING PIPE																																																																																			
Priority:	CA19690066458 19691103 CA19720141057 19720502 US19730408339 19731023 US19730408790 19731023	CA19720141055 19720502 CA19720141056 19720502 US19740457011 19740401 US19720243991 19720414	US19640387372 19640804 US19660577035 19660902 US19750638204 19751205 US19690824153 19690513																																																																																	
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Assignee(s):	CIBA CORP ; CIBA GEIGY A G ; CIBA SA ; J WARNE CARTER ; CIBA AG ; AMERON INC ; AMERON INC A CORP OF CA ; CARTER J WARNE																																																																																			
Inventor(s):(std):	CARTER J ; CARTER W ; WARNE CARTER J ; CARTER J WARNE																																																																																			
Inventor(s):	CIBA SA ; J WARNE CARTER																																																																																			
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Forward Citations:	WO16150883, WO10001115, WO10001115, WO09128971, USRE35081, US9890880, US9857003, US9751103, US9726306, US9463923, US9322495, US9206676, US9138944, US9127546, US8985154, US8955599, US8763647, US8746289, US8678042, US8678041, US8671992, US8272112, US8187687, US8110741, US8066033, US8028573, US8001997, US7989028, US7870874, US7647948, US7523765, US7487802, US7487578, US7278350, US7234410, US7152632, US7029356, US6978804, US6919122, US6857452, US6764365, US6706348, US6663453, US6604550, US6361299, US6357485, US6286558, US6148866, US6129962, US6062264, US6035925, US5888601, US5736199, US5688571, US5580626, US5556677, US5549947, US5477886, US5266137, US5188872, US5081950, US5048441, US4991651, US4854384, US4600036, US4557367, US4483731, US4474216, US4330016, US4308999, US4299413, US4275493, US4174243, US4078957, US4053343, US4028164, US4010054, US3902944, US2016101431, US2016031638, US2015023735, US2011210542, US2010218944, US2010212769, US2010000313, US2010000068, US2009278348, US2009173406, US2009114101, US2009107558, US2008185042, US2008014812, US2008006338, US2008006337, US2007272785, US2006084331, US2005277347, US2005249965, US2005189029, US2005121094, US2004256398, US2004154473, US2004109986, US2004072485, US2004031532, US2004003856, US2003087052, US2002185188, JP49132760, FR2440509, EP3069848, EP0027098, DE3841597, DE3841597, DE2422304, CN102962992, CN102962992, AU2012216495,																																																																																			
Abstract:	Source: US3507412A ABSTRACT OF THE DISCLOSURE An automatic, continuous system for fabricating fiber reinforced plastic pipe where a single source of power acts to rotate the pipe assembly being fabricated and operate various devices serving to incorporate material into the pipe assembly as it is generated is combined with air pressure means acting to longitudinally advance the pipe assembly through the system. The device controls and synchronizes the linear advancement of a cylindrical pipe in relation to the rate of rotation of the cylindrical body. This application is a continuation-in-part of application Ser. No. 387,372, filed Aug. 4, 1964, now abandoned, of which application Ser. No. 705,564, now abandoned, filed Feb. 14, 1968, is a continuation.																																																																																			

April 21, 1970 J. W. CARTER 3,507,412
 DIVIDER FOR SPACING AND ROTATING FILLS
 Filed Sept. 8, 1968 27 Sheets-Sheet 1



INVENTOR
 J. W. CARTER

Title: OZONE STERILIZATION PROCESS

Priority: AU19750086986 19751126 CA19710130066 19711214 CA19750237396 19751007
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Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: ARMSTRONG EDWARD T

Assignee(s):(std): ARMSTRONG EDWARD ; ARMSTRONG EDWARD T ; TII CORP ; TEREKOMYUUNIKEISHONZU IND INC ; GRAHAM J ; TII CORP TELECOMMUNICATIONS IN ; T11 CORP ; ARMSTRONG E ; ARMSTRONG E T ; TELECOMMUNICATIONS IND INC ; TELECOMM IND INC ; TELECOMMUNICATIONS IND

Assignee(s): TIL CORP ; TII CORP TELECOMMUNICATIONS IND INC ; EDWARD T ARMSTRONG ; ARMSTRONG E US ; KEY WEST HOLDINGS INC ; GRAHAM J US

Inventor(s):(std): ARMSTRONG E ; ARMSTRONG EDWARD T ; EDOWAADO TEI AAMUSUTORONGU ; GRAHAM J

Inventor(s): GRAHAM J US ; T ARMSTRONG EDWARD ; EDWARD T ARMSTRONG ; ARMSTRONG E US

Agent(s): RIDOUT AND MAYBEE LLP

International class (IPC 8-9): A47K10/06 A47K10/30 A61L11/00 A61L2/16 A61L2/20 B01D21/00 B01D21/02 B01D21/34 B01D47/00 B01D53/34 B01F11/00 B01F3/04 B01F5/04 B01F5/06 B01J10/00 B01J12/00 C01B13/10 C01B13/11 C02F1/24 C02F1/34 C02F1/36 C02F1/48 C02F1/72 C02F1/74 C02F1/76 C02F1/78 C02F11/00

C02F11/06 C02F3/00 C02F3/02 C02F3/04 C02F3/10 C02F3/12 C02F3/14 C02F3/20 C02F3/26 C02F3/30 C02F3/34 C02F7/00 C02F9/00 F16L55/00 F16L55/02 F16L55/045 (Advanced/Invention);
C02F1/76 C02F1/78 F16L55/00 (Advanced/Non-invention);
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C02F1/76 C02F1/78 (Core/Non-invention)

**International class
(IPC 1-7):**

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CPC:

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US class:

137/207 137/604 137/888 138/115 210/0.6 210/151 210/19.5 210/192 210/194 210/195.1 210/195.3 210/199 210/202 210/203 210/220 210/273 210/519 210/60 210/61 210/614 210/615 210/622 210/625 210/629 210/631 210/752 210/756 210/758 210/760 210/764 210/765 210/96.2 219/342 219/385 219/521 219/541 239/254 239/550 248/214 248/317 261/116 261/76 261/78.2 34/239 392/436 422/186.14 422/186.2 422/28 422/39 423/210 423/659 423/DIG.17 423/DIG.9 55/9.3 588/900

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Abstract:

Source: US3549528A ABSTRACT OF THE DISCLOSURE

A unique utilization of oxygen and ozone generated from oxygen in a gaseous form singly or in combination as from air, or a carbon dioxide-oxygen mixture used as 15 a solution or with superheated water vapor is contemplated in process and apparatus. A sterilant is made by passing a fluid in a flow dominated by a hydraulic pressure gradient characterized by an overall pressure drop per unit of line length reduced from the gravitational 20 gradient pressure drop per unit of line length of one foot of fluid per foot of distance by several orders of magnitude, substantially uninfluenced by the gravitational pressure gradient incidentally present creating local areas of high momentum exchange at restrictions in the flow, and 25 introducing gaseous oxygen-ozone into the liquid at these points where the static pressure is regained thus modifying the velocity profile in fully developed turbulent flow to achieve maximum uniformity of oxygen-ozone concentration throughout the fluid whereby the solubility 30 of the oxygen-ozone into the fluid is greatly enhanced. Further, this process may also be operated at a reduced incident gas content in the fluid and possibly at a temperature reduced to increase the solubility of oxygen-ozone, and sterilization within the fluid conduit or con- 35 tainer takes place during a distance in which the hydraulic pressure gradient is continuously imposed to ensure maximum solubility of the oxygen-ozone into the fluid by reason of intense mixing and restricted pressure change.

Dec. 22, 1970

E. T. ARMSTRONG
COONE STERILIZATION PROCESS

3,549,529

Filed Feb. 20, 1909

5 State-Steel 2

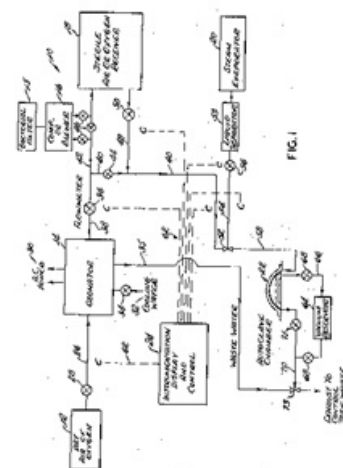


FIG. 1

EDWARD T. ARMSTRONG
BY *William & Fisher*
ATTYS.

Title: QUATERNARY AMMONIUM EPOXY RESIN DISPERSION WITH BORIC ACID FOR CATIONIC ELECTRO-DEPOSITION

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Family:	Publication number	Publication date	Application number	Application date
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Probable Assignee: PPG INDUSTRIES INC

Assignee(s):(std): PPG INDUSTRIES INC ; PPG INDUSTRIES US ; PPG INDUSTRIES ; PPG INDUSTRIES INC ONE GATEWAY CENTER PITTSBURGH ; P P G INDUSTRIES INC PITTSBURGH PENNSYLVANIE VER ; PPG IND INC ; PPG IND INC US

Assignee(s): PPG INDUSTRIES INC 15222 PITTSBURGH PA US ; BOSSO JOSEPH F ; PPG IND INC PITTSBURGH PA V ST A ; P P G INDUSTRIES INC PITTSBURGH PENNSYLVANIE VER S ; P P G INDUSTRIES INC PITTSBURGH PENNSYLVANIE VER ST V AM ; PPG INDUSTRIES INC ONE GATEWAY CENTER PITTSBURGH P ; PPG INDUSTRIES INC PITTSBURGH PA V ST A ; PPG INDUSTRIES INC ONE GATEWAY CENTER PITTSBURGH PENNSYLVANIE E U A ; WISMER MARCO

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International class (IPC 8-9): C08F20/00 C08F20/32 C08F8/00 C08G18/00 C08G18/08 C08G59/00 C08G59/02 C08G59/14 C08G59/40 C08G59/50 C08G59/52 C08G59/58 C08G59/64 C08G59/68 C08G79/08 C08L101/08 C08L61/00 C08L87/00 C09D5/44 C25D13/06 (Advanced/Invention); C08G59/00 C25D13/06 (Advanced/Non-invention); C08F20/00 C08F8/00 C08G18/00 C08G79/00 C08L101/00 C09D5/44 C25D13/04 (Core/Invention); C25D13/04 (Core/Non-invention)

International class (IPC 1-7): B01K5/00 B01K5/02 B05D7/26 C07C43/20 C08B13/00 C08F27/00 C08F283/10 C08F3/00 C08F8/32 C08G17/14 C08G18/08 C08G22/00 C08G22/04 C08G23/00 C08G30/00 C08G30/14 C08G30/16 C08G33/00 C08G33/16 C08G45/00 C08G49/00 C08G51/24 C08G53/00 C08G59/00 C08G59/02 C08G59/14 C08G59/40 C08G59/50 C08G59/52 C08G59/58 C08G59/64 C08G79/08 C08K3/38 C08L101/08 C08L61/00 C08L61/06 C08L61/20 C08L63/00 C08L63/02 C08L87/00 C09D3/48 C09D3/58 C09D5/02 C09D5/40 C09G C23B13/00 C23F C25D13/06 C25D15/00 D21H1/22 H01B19/04

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European class: C08F8/00 C08F8/00+20/26 C08G18/08B C08G18/08B9 C08G59/14K C08G59/40B3 C08G59/40B4 C08G59/40B5 C08G59/50 C08G59/52 C08G59/58 C08G59/64 C09D5/44D2B C09D5/44D4 C09D5/44D4B C09D5/44D4B2 C09D5/44D4B4 C09D5/44D4K C09D5/44K

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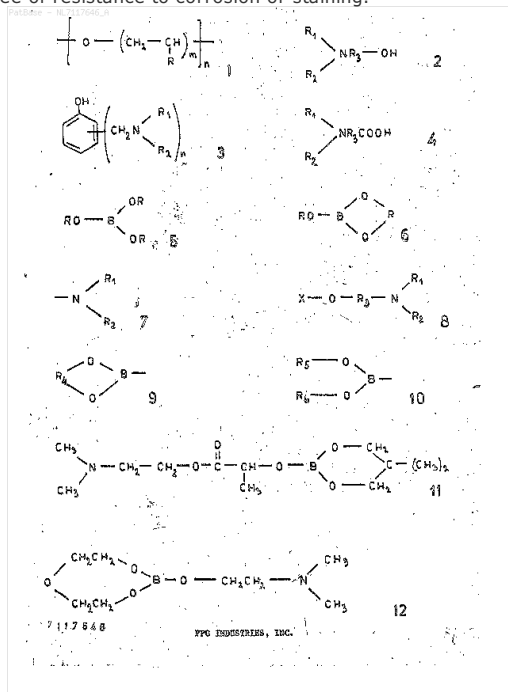
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US4496671, US4489182, US4487674, US4486280, US4481311, US4468307, US4467089, US4454264, US4444955, US4444954, US4444634, US4442245, US4440882, US4440612, US4431782, US4427514, US4423169, US4423168, US4423167, US4419467, US4409288, US4384927, US4383073, US4374965, US4374213, US4362853, US4356277, US4340455, US4339369, US4339368, US4338423, US4338232, US4328143, US4321305, US4321304, US4316922, US4312734, US4310398, US4303488, US4299747, US4297255, US4293474, US4293398, US4283428, US4278580, US4260727, US4260716, US4247439, US4246087, US4238378, US4237264, US4234692, US4231907, US4225406, US4212779, US4197224, US4192932, US4192929, US4174333, US4170579, US4167499, US4164487, US4150006, US4148772, US4144159, US4141810, US4140664, US4136070, US4134816, US4129490, US4110287, US4102863, US4101486, US4081341, US4076676, US4076675, US4070258, US4069210, US4066523, US4065415, US4064028, US4040924, US4035275, US4020030, US4020028, US4009133, US3962499, US3936405, US2014187684, US2014093880, US2011263753, US2009326189, US2009326173, US2009326099, US2009236231, US2009140202, US2008312349, US2008289969, US2008207822, US2008203012, US2008032127, US2007185330, US2006247334, US2006213685, US2006141143, US2006075633, US2006005995, US2005279633, US2005228124, US2005208319, US2005197472, US2005196618, US2005166790, US2005006138, US2004225057, US2004176529, US2004131871, US2004116562, US2004110895, US2004044165, US2004019173, US2004016643, US2004000427, US2004000049, US2003220446, US2003220036, US2003213694, US2003155242, KR101154152, KR100837178, KR100746461, JP61228068, JP60001265, JP54125290, JP53124540, JP53108131, JP53063708, JP52125109, JP51084825, FR2531969, FR2416927, FR2401188, FR2376197, FR2194797, FR2194797, FR2132152, EP3040451, EP2757123, EP1907486, EP1778796, EP1702955, EP1702955, EP1702955, EP1652869, EP1539889, EP1534788, EP1456012, EP1388552, EP1272573, EP1228155, EP0986616, EP0961797, EP0930348, EP0852252, EP0784065, EP0768327, EP0644245, EP0458502, EP0356970, EP0304834, EP0301293, EP0273247, EP0273247, EP0253404, EP0220660, EP0184467, EP0184467, EP0180051, EP0125577, EP0088377, EP0081266, EP0060581, EP0059895, EP0003067, DE4143664, DE3614435, DE3044447, DE3041700, DE3014733, DE3002305, DE2935067, DE2756808, DE2755538, DE2751869, DE2734413, DE2721985, DE2715259, CN103857755, CN103857755, AU597693, AU2008231222, AU2008231222, AU2008231222,

Abstract:

Source: US3839252A Synthetic resins which are water-dispersible epoxy resins having epoxy groups, chemically-bound quaternary ammonium base salts, can be dissolved or dispersed in water to provide aqueous coating compositions. Such compositions, in which these resins are the major resinous component, can be applied by electrodeposition and deposit on the cathode to provide coatings of improved properties, including a high degree of resistance to corrosion or staining.



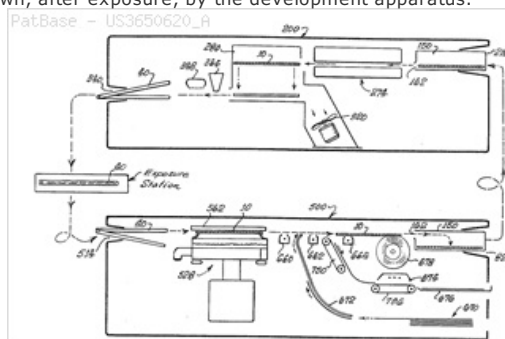
Title: AUTOMATED XEROGRAPHIC PROCESSING SYSTEM
Priority: CA19700088977 19700723 CA19720149945 19720822 US19690874834 19691107
Family:

Publication number	Publication date	Application number	Application date
AR194564 A1	19730731	AR19700232172	19700903
AT319045 B	19741125	AT19700010026	19701106
BE758721 A	19710510		00000000
BE758721 A1	19710510		19701109
CA935503 A1	19731016	CA19700088977	19700723
CA940701 A1	19740129	CA19720149945	19720822
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CH527454 A	19720831	CH19700016324	19701104
DE2054276 A1	19710519	DE19702054276	19701104
FR2067040 A1	19710813	FR19700042232	19701106
FR2067040 B1	19730427	FR19700042232	19701106
GB1336436 A	19731107	GB19700052681	19701105
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SE367492 B	19740527	SE19700014813	19701103
SE391991 B	19770307	SE19740000455	19701103
SE391991 C	19770616	SE19740000455	19701103
SE391992 B	19770307	SE19740000454	19701103
SE391992 C	19770616	SE19740000454	19701103
US3650620 A	19720321	US19690874834	19691107

Probable Assignee: XEROX CORP
Assignee(s):(std): XEROX CORP
Assignee(s): XEROX CORP ROCHESTER NEW YORK 14603 E U A ; XEROX CORP US ; HAZEN L HOYT III ; HOYT HAZEN L III
Inventor(s):(std): H L HOYT III ; HAZEN L HOYT ; HOYT H ; HOYT H L ; HOYT H L III ; HOYT HAZEN L ; HOYT HAZEN L III ; HOYT III H L
Inventor(s): L HOYT HAZEN ; HOYT H L US ; HAZEN L HOYT III ; HL HOYT III
International class (IPC 8-9): G03B17/34 G03B42/04 G03G15/02 G03G15/22 (Advanced/Invention); G03B17/32 G03B42/04 G03G15/00 G03G15/02 (Core/Invention)
International class (IPC 1-7): G03B17/34 G03B27/58 G03B41/16 G03B42/02 G03G15/00 G03G15/02 G03G15/08 G03G15/22
CPC: G03B17/34 G03B42/045 G03G15/221 G03G15/222
European class: G03B17/34 G03B42/04L G03G15/22A G03G15/22A1
US class: 355/16 355/3 378/28 378/32 399/130 399/168
[Classification Explorer](#)
Cited documents: US3229603 A, US3091160 A, US2892391 A,
Forward Citations: US6137861, US5773839, US5440146, US5023661, US5000438, US4346983, US4247191, US4118116, US4061915, US4047193, US4038943, US3976373, US3920991, US3900405, JP53017082, FR2406839, FR2332553, FR2228238, EP0219836, EP0122729, EP0074125, EP0023155, EP0001653, EP0001653, DE3209001, DE3209000,

Abstract:

Source: US3650620A An automated flat-plate xerographic processing system especially adapted for use in the field of medical diagnostics. In this system, exposure of the uniformly charged xerographic plate takes place outside of the xerographic processing apparatus such that the test object may be selectively positioned with respect to the radiation source and the xerographic plate. To permit such exposure, the processing system includes a light-tight cassette into which the uniformly charged xerographic plate is inserted and held until automatically withdrawn, after exposure, by the development apparatus.

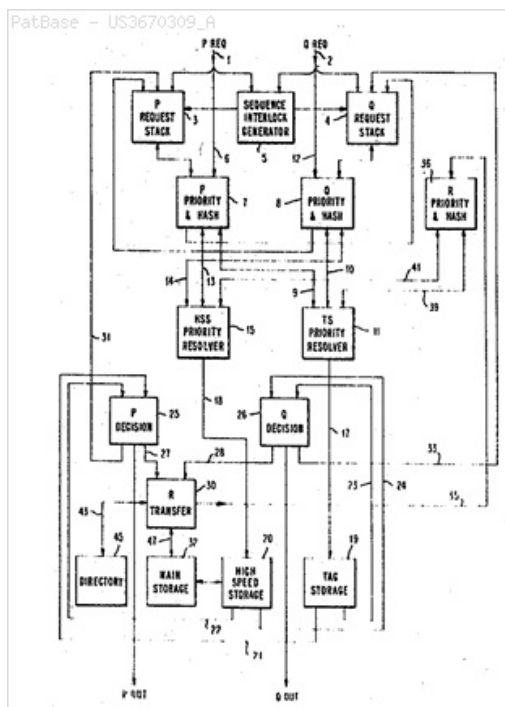


Title: STORAGE CONTROL SYSTEM**Priority:** US19690887469 19691223**Family:**

Publication number	Publication date	Application number	Application date
DE2061576 A1	19710701	DE19702061576	19701215
FR2143504 A1	19730209	FR19700044212	19701119
FR2143504 B1	19741011	FR19700044212	19701119
GB1313528 A	19730411	GB19700057956	19701207
JP50004530 B4	19750220	JP19700109657	19701211
US3670309 A	19720613	US19690887469	19691223

Probable Assignee: IBM**Assignee(s):(std):** IBM**Assignee(s):** IBM US ; INT BUSINESS MACHINES CORP ; INTERN BUSINESS MACHINES CORP**Inventor(s):(std):** AMDAHL GENE M ; ARNOLD RICHARD F ; DAUBER PHILIP S ; FREIMAN CHARLES V ; ROBELEN RUSSELL J ; SCHORR HERBERT ; WIERZBICKI JOHN R**Inventor(s):** RUSSELL J ROBELEN ; RICHARD F ARNOLD ; PHILIP S DAUBER ; JOHN R WIERZBICKI ; HERBERT SCHORR ; GENE M AMDAHL ; CHARLES V FREIMAN**International class**
(IPC 8-9): G06F12/08 G06F13/10 G06F13/18 (Advanced/Invention);
G06F12/08 G06F13/10 G06F13/16 (Core/Invention)**International class**
(IPC 1-7): G06F13/00 G06F7/00 G06F9/18 G11C15/00 G11C9/00**CPC:** G06F12/0857 G06F13/18**European class:** G06F12/08B6P2 G06F13/18**US class:** 340/172.5 711/129 711/131 711/151 711/E12.05[Classification Explorer](#)**Cited documents:** US3473159 A, US3469239 A, US3461433 A, US3398405 A, US3368207 A, US3218611 A,**Forward Citations:** US6732250, US6353831, US6092080, US5832499, US5402431, US4887235, US4707781, US4571674, US4527238, US4489378, US4484262, US4458316, US4453216, US4381541, US4317168, US4208716, US4169284, US4075686, US4024507, US3967247, US3964054, US3928857, US3878513, US3839704, FR2448189, FR2235428, FR2235428, EP0071719, EP0023213, AU570657,**Abstract:**

Source: US3670309A Described is a **storage** control system for a two-level **storage** system. The system includes a high-speed **storage** against which requests for data are processed and a slower, larger-capacity main **storage**. Requests for data are received in terms of logical addresses. Requests can be received concurrently at a plurality of request ports where they are buffered in request stacks. A tag **storage** serves as an index to the data currently resident in high-speed **storage**, and a directory **storage** acts as an index to data currently in main **storage**. A sequence interlock generator is included which interlocks requests in the plurality of request stacks to insure that requests to the same **storage** area are performed in proper sequence to insure data integrity. When a request is serviced, the logical address is transformed into a plurality of physical addresses in high-speed **storage**. The corresponding tags from the tag **storage** and the corresponding data from the high-speed **storage** are concurrently fetched. A comparison is made of the tags with the transformed address to determine whether the requested data is in high-speed **storage**. Since request to the same **storage** entity in high-speed **storage** or tag **storage** can be made concurrently by all request ports, conflict resolvers are included to resolve conflicts arising from simultaneous requests to either of these two **storages**. High-speed **storage** is divided into **storage** modules capable of simultaneous operation such that requests from the plurality of request ports can be serviced concurrently. If comparison of the tags indicate that the requested data is available, the request is serviced. An interstorage transfer mechanism is included such that if the requested data is not available in high-speed **storage**, then the data is retrieved from main **storage** and placed into high-speed **storage** for subsequent processing of the request. Concurrently with interstorage transfer, processing of other requests from the request ports is permissible. In the replacement of data from main **storage** to high-speed **storage**, provision is made for also replacing data from high-speed **storage** to main **storage** if such be necessary.



Title: AUTOMATIC TOWEL WINDING MACHINE
Priority: CH19700022447 19700325 DE19712166066 19710311 US19720299341 19721020
US19740497555 19740815 DE19712166067 19710311 US19700022447 19700325

Family:	Publication number	Publication date	Application number	Application date
	DE2111805 A1	19711028	DE19712111805	19710311
	DE2166066 A1	19730111	DE19712166066	19710311
	DE2166067 A1	19730111	DE19712166067	19710311
	FR2099055 A5	19720310	FR19710008798	19710312
	GB1347363 A	19740227	GB19710022781	19710419
	GB1347364 A	19740227	GB19710022781	19710419
	JP51030633 B4	19760902	JP19710016133	19710320
	JP51067489 A2	19760611	JP19750130570	19751031
	JP51067490 A2	19760611	JP19750130571	19751031
	JP53035198 B4	19780926	JP19750130570	19751031
	JP957323 C3	19790614	JP19750130570	19751031
	NO134486 B	19760712	NO19710000904	19710310
	NO134486 C	19761020	NO19710000904	19710310
	SE371171 B	19741111	SE19710003162	19710311
	SE371171 C	19750220	SE19710003162	19710311
	US3761032 A	19730925	US19700022447	19700325
	US3946961 A	19760330	US19740497555	19740815

Probable Assignee: STEINER AMERICAN CORP
Assignee(s):(std): STEINER AMERICAN CORP ; STEINER CO LAUSANNE SA
Assignee(s): STEINER CY LAUSANNE ; SUTAINAA CO ROOZANNU SA ; STEINER AMERICAN CORP US ; STEINER CO LAUSANNE CH SA ; STEINER CO LAUSANNE S A ; STEINER CO LAUSANNE S A LAUSANNE SCHWEIZ
Inventor(s):(std): AAUIN BII BAANSEN ; B BAHNSEN ERWIN ; BAHNSEN E ; BAHNSEN E B ; BAHNSEN ERWIN B
Inventor(s): BAHNSEN ERWIN B OAKBROOK ILL V ST A ; BAHNSEN E US
International class (IPC 8-9): A47K10/26 B65H18/10 B65H19/22 B65H23/02 (Advanced/Invention); A47K10/24 B65H18/10 B65H19/22 B65H23/02 (Core/Invention)
International class (IPC 1-7): A47K10/00 A47K10/26 B65D83/00 B65H17/00 B65H17/02 B65H17/24 B65H17/48 B65H19/04 B65H19/22 B65H19/28 B65H19/30 B65H23/02 B65H25/06 B65H25/26 B65H27/00
CPC: A47K10/26 B65H19/2207 B65H2301/41426 B65H2701/1924
European class: A47K10/26 B65H19/22A L65H301/41426 L65H701/1924
US class: 242/414.1 242/530 242/532.2 242/533.7 242/534 242/535.4 242/546 242/581 242/67.1R 68/13R
[Classification Explorer](#)
Cited documents: US3246857 A, US3222006 A, US2968449 A, US2826376 A, US2760734 A, US2575631 A, US2568790 A, US2529075 A, US1977668 A, JP40011676 A2, JP40008733 A2, JP37010058 A2,
Forward Citations: US9045303, US9027870, US8973858, US8925853, US8919687, US8915462, US8915461, US8910897, US8794562, US8783599, US8783598, US7278203, US6459707, US2013277491, US2013277490, US2013092784, US2013092783, JP55005381, DE4413878, DE19856489, CN103381972,

Abstract:

Source: US3761032A An automatic **towel** winder includes a frame supporting a plurality of winding units and a conveyor assembly for feeding a plurality of **towels** respectively to the winding units along a plurality of parallel side-by-side lanes, each of the winding units occupying three adjacent lanes and including a hollow winding mandrel having side perforations therein for winding the **towel** into a roll thereon, a constant-torque electric motor to drive the mandrel, suction means coupled to the hollow mandrel for urging the leading end of the fed **towel** against the mandrel to initiate winding thereon, an ejector for removing the wound **towel** roll from the mandrel and a receptacle for catching the ejected roll, the winding units being staggered on the frame to occupy a space only slightly wider than the combined widths of the fed **towels**; electric control circuitry for the winder and alternative embodiments of mandrel drive means and roll ejector are also disclosed.

