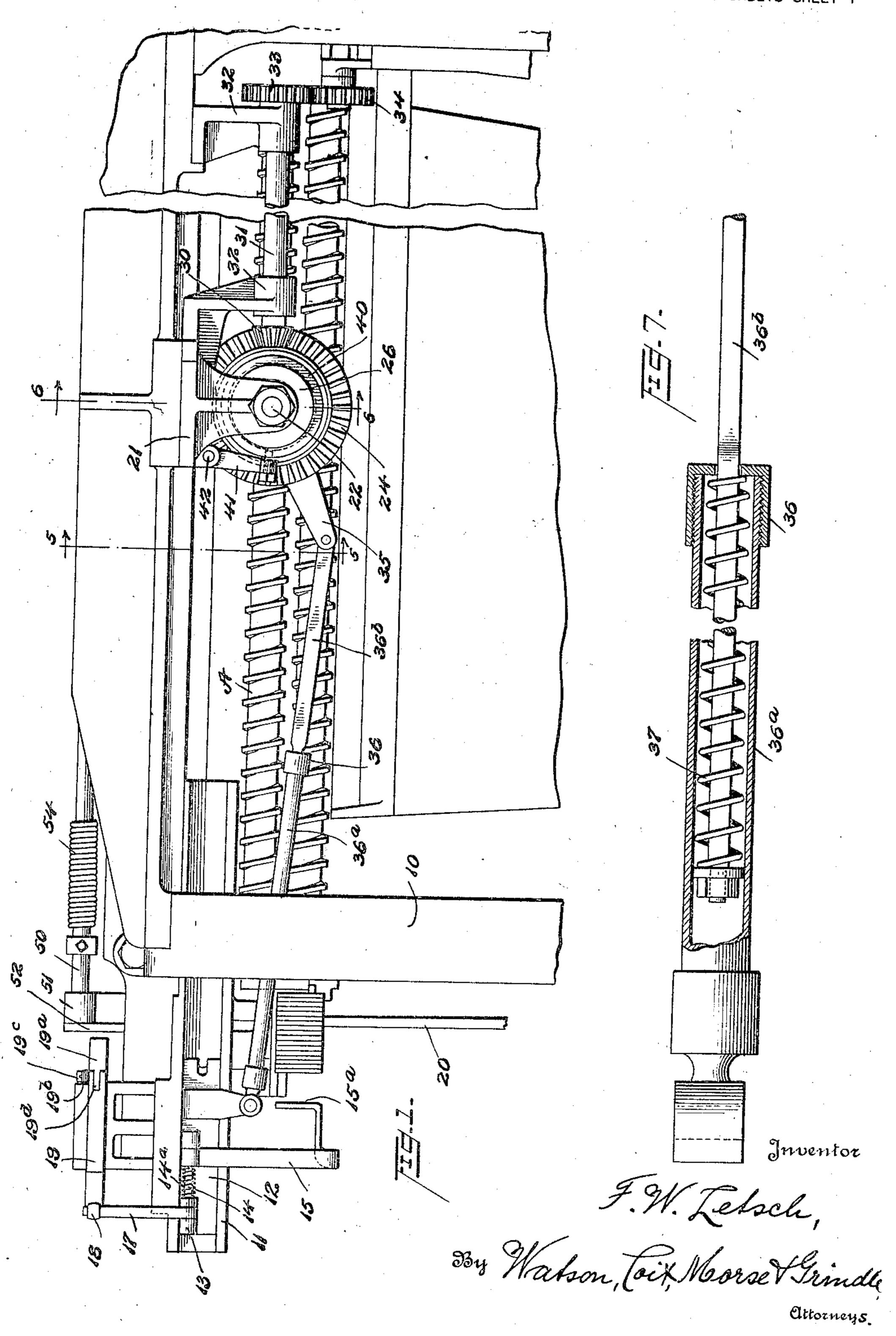
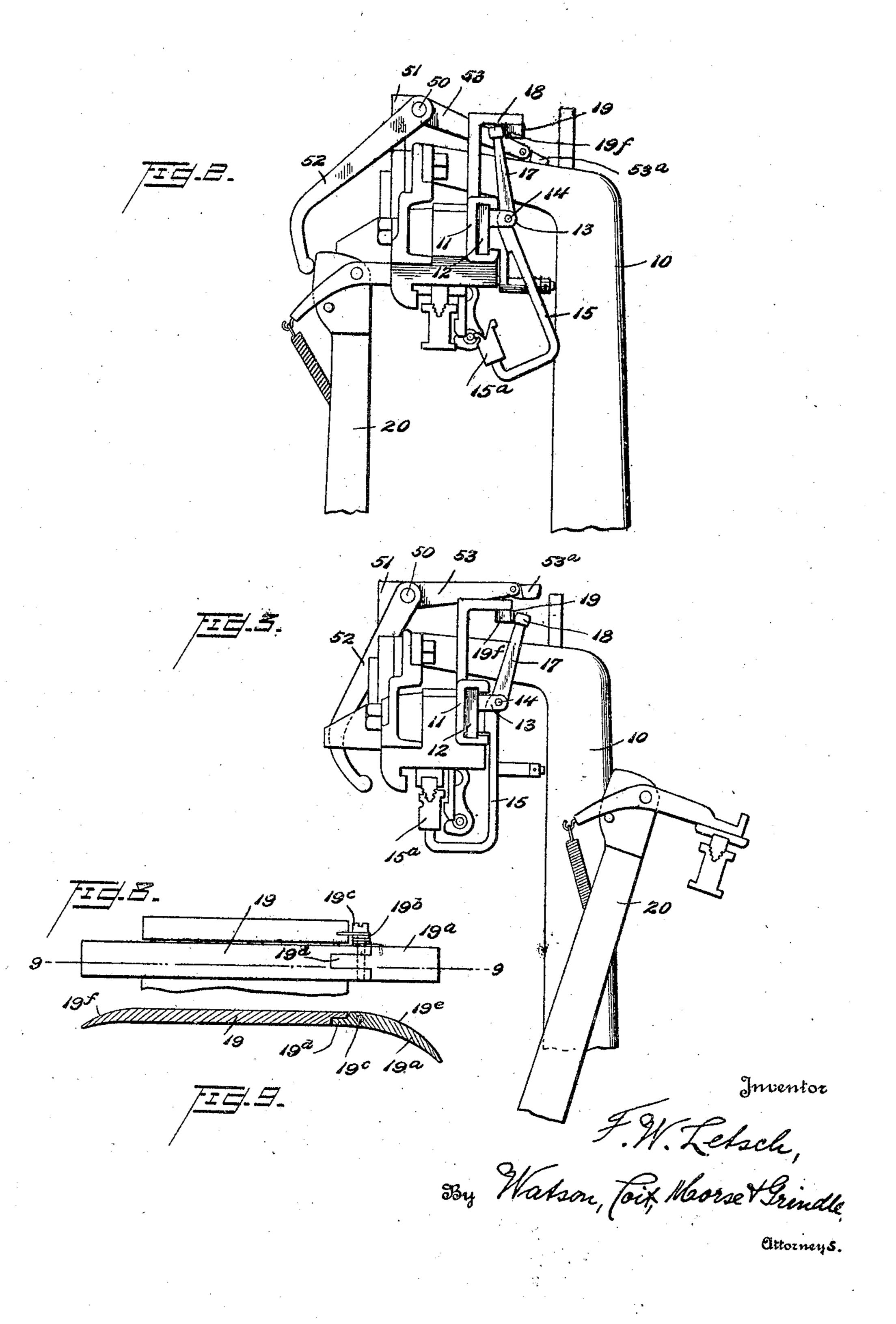
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DISTRIBUTING MECHANISM FOR TYPOGRAPHIC MACHINES.
FILED APR. 28, 1920.

3 SHEETS-SHEET 1



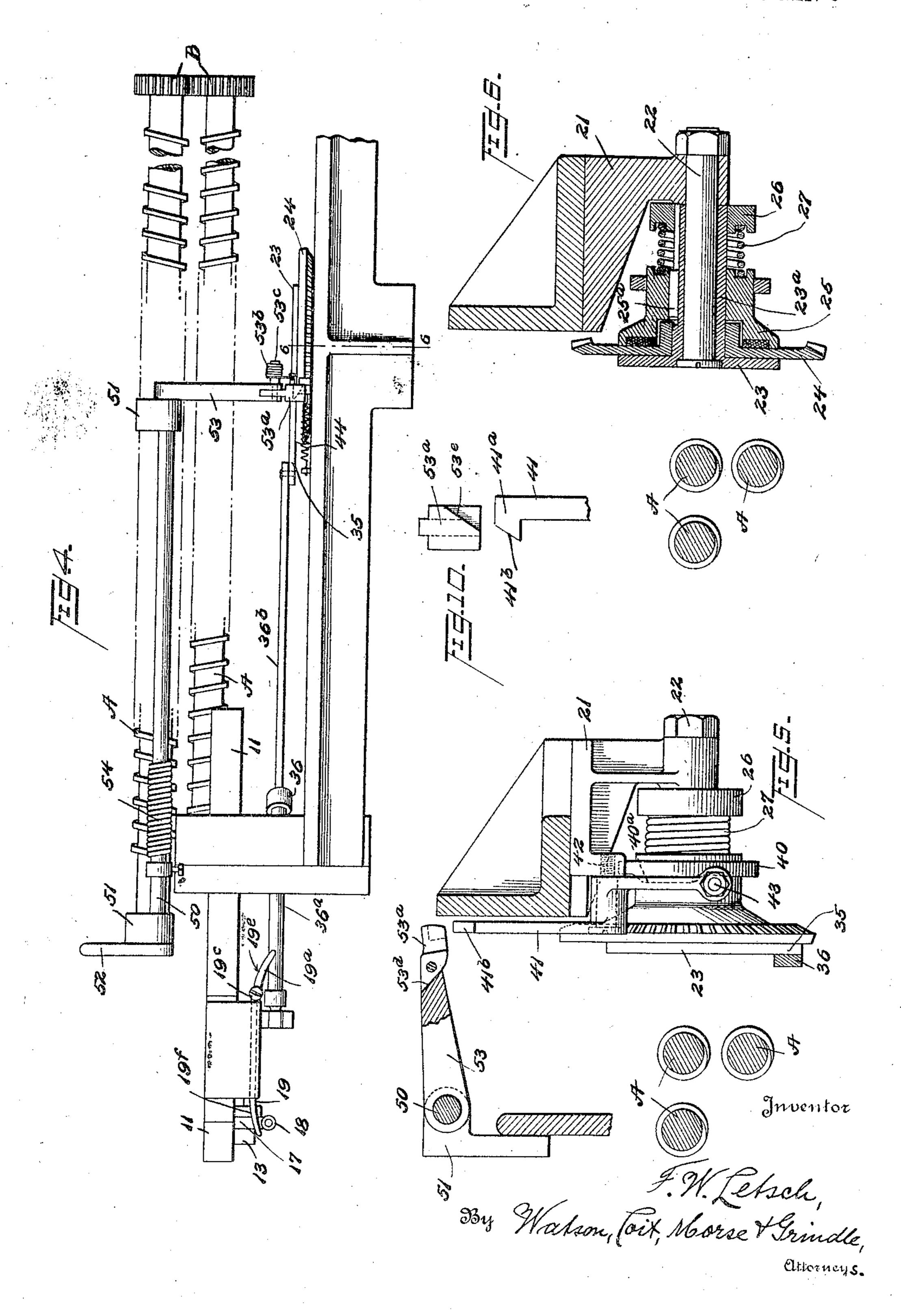
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3 SHEETS-SHEET 2



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3 SHEETS SHEET 3



UNITED STATES PATENT OFFICE.

FREDERICK W. LETSCH, OF BALTIMORE, MARYLAND.

DISTRIBUTING MECHANISM FOR TYPOGRAPHIC MACHINES.

Application filed April 28, 1920. Serial No. 377,252.

To all whom it may concern:

a citizen of the United States, and residing at Baltimore city, Maryland, have invented certributing Mechanism for Typographic Machines, of which the following is a specification.

This invention relates to distributing 10 mechanism for typographic machines and particularly to what is known as linotype machines. In machines of this character means are employed for elevating matrices and holding them adjacent the distributing 15 mechanism. This is generally known as the second elevator bar. Mechanism is also employed for transferring the matrices from the elevator bar to the distributing mechanism. The present invention relates particu-20 larly to certain improvements in such transfer mechanism.

In machines of this kind as now generally constructed, the transfer mechanism is operated from the main shaft of the machine 25 by means of a long arm to which the transfer mechanism is attached. This arm has a Figure 5 is a sectional riew on the line long sweeping movement which is more or less undesirable as it is apt to be somewhat abrupt and irregular. Furthermore, it is 30 necessary for the parts to be so arranged that this arm may be moved away from a position adjacent the distributing mechanism before the elevator bar is lifted since otherwise the parts will interfere.

By the present invention the means for operating the transfer mechanism is mounted on the frame of the machine adjacent the distributing mechanism with the result that a lighter, smoother movement of the trans-40 fer mechanism can be obtained. An additional advantage of the present arrangement also lies in the fact that after a collection of matrices has been moved from the elevator bar the transfer mechanism need not be re-45 turned to position to move the next collecsuch bar has moved downwardly, received a new supply of matrices and again reached its uppermost position. The result is that 50 more time is allowed for transferring the matrices into the distributing mechanism which fact admits of a slower, easier movement of the transfer mechanism and thus the danger of bending or breaking the thin mat-55 rices is more effectively obviated.

The invention in one specific form is set

forth in the following specification and illus-Be it known that I. Frederick W. Letsch, trated in the accompanying drawings, but it is apparent that various modifications in the details of this specific construction may 60 5 tain new and useful Improvements in Dis- be made without departing from the true spirit or scope of the invention.

In the drawings forming part of this

specification:

Figure 1 is a front elevation of a portion 65 of a linotype machine with the present invention applied thereto, certain parts being broken away and other well known parts being omitted:

Figure 2 is an end view of the mechanism 70 illustrated in Figure 1 showing the parts as they appear when viewed from the left in said figure, this view also omitting old and well known features of the machine;

Figure 3 is an end view similar to that 75 shown in Figure 2 with certain of the parts

illustrated in different positions;

Figure 4 is a plan view of the mechanism shown in Figure 1, various parts being broken away and others being omitted for 80 the sake of clearness;

5-5 of Figure 1, certain of the parts appearing in elevation;

Figure 6 is a sectional view on the line 85

6-6 of Figures 1 and 4;

Figure 7 is a detailed sectional view showing the construction of the link employed for operating the transfer mechanism;

Figure 8 is a side elevation of the cam 90 bar employed for swinging the matrix pusher arm at certain points in its travel;

Figure 9 is a longitudinal sectional view

on the line 9—9 of Figure 8;

Figure 10 is an elevational view showing 95 the detailed construction of certain parts of the mechanism for controlling the movements of the transfer mechanism.

Referring to the drawings in detail 10 represents a part of the frame of the ma- 100 chine which supports the mechanism to tion of matrices from the bar until after which the present invention relates. Supported on this frame is a slideway 11 in which a slide 12 is adapted to reciprocate. Mounted on the slide 12 are brackets 13 and 105 a shaft 14 is rotatably mounted in these brackets. A pusher arm 15 is keyed to the shaft 14, this arm carrying at its lower end a part 15^a which is adapted to contact with and move the matrices from the elevator 110 bar into the distributing mechanism. An arm 17 is also rigidly secured to the shaft

14, this arm carrying at its upper end a ranged on the upper part of the frame 10 roller 18 which at certain times is caused to adjacent the distributing mechanism. A contact with and bear against a cam bar 19 secured to the upper portion of the slideway 5 11 of the machine. A coiled spring 14^a is mounted on the shaft 14 which spring is so arranged as to hold the pusher arm 15 normally in position to contact with matrices 25 is also mounted on the hub of the rotary

held on the elevator bar.

member against movement.

25 is, toward the distributing mechanism, the The shaft 31 carries at its end a spur gear 90 30 the arm 17 will contact with the pivot mem-mechanism. ber 19a of the cam bar and move the same The rotary member 23 carries an arm 35 35 former position under the influence of the Figure 7 of the drawing, consists of two tele- 100 40 18 will contact with the rear curved portion the rotary member 23 is caused to rotate. 105 19° of the pivot member 19° with the result Means are provided for producing an ininterfering with the cam bar.

position adjacent the distributing mechanism. The elevator bar 20 is operated from 60 the main shaft of the machine in a manner which is well known and a description or illustration of such operating mechanism

is unnecessary.

The means for reciprocating the slide 12 65 will now be described. A bracket 21 is ar-

bearing pin 22 is mounted in this bracket 21 and a rotary member 23 is journaled on said pin. The member 23 is provided with a hub 70 portion 23a on which a beveled gear wheel 24 is rotatably mounted. A clutch member member 23, these parts being keyed together Referring particularly to Figures 8 and by means of a key 25° so that the clutch 75° 9, it will be observed that the cam bar 19 is member 25 can move longitudinally of the provided with a pivoted member 19^a which hub of the member 23 but relative rotation is normally held in the position shown in between such parts is prevented. A member Figure 9 by means of a coiled spring 19^b 26 is also secured to the hub of the rotary 15 which surrounds the pivot pin 19° on which member 23 and a coiled spring 27 surrounds 80 the pivoted member 19a is mounted. The the hub of member 23 and bears against the pivoted member 19^a is held from movement—clutch member 25 and the member 26. This in one direction by means of a projection spring tends to constantly urge the clutch 19d which in one position contacts with the member 25 into contact with the surface of 20 main portion of the bar 19 and holds such the gear wheel 24. The gear wheel 24 is 85 constantly driven through the medium of It will be understood that the cam bar 19 a beveled pinion 30 mounted on a shaft 31 is so positioned that as the slide 12 carrying rotatably supported in brackets 32 and 21 the arm 17 is moved toward the right, that secured to the frame 10 of the machine. roller 18 will be out of contact with such 33 which cooperates with an idler gear 34, bar until the slide approaches the end of its which meshes with one of the gears B, B, movement in that direction. On nearing employed for driving the distributing screws the end of such movement the roller 18 of A constituting part of the distributing

about the pivot pin 19°. After the arm 17 which arm is connected to the slide 12 herewith the roller 18 passes the pivoted mem- tofore referred to through the medium of ber 19a such member will be returned to its a spring link 36. This link, as shown in spring 19b. When the slide carrying the scoping parts 36a and 36b between which a arm 17 and the roller 18 begins its move-coiled spring 37 is arranged, it being underment in the opposite direction i. e., away stood that this spring constitutes a yielding from the distributing mechanism, the roller means by which the slide 12 is operated as

that the roller will be compelled to follow termittent rotary motion of the member along the rear portion of the cam bar and 23 and such means will now be described. it will be understood that when the roller Mounted upon the clutch member 25 is a 45 18 is in contact with such rear portion of cam 40. A lever 41 is pivoted to the bracket 110 the cam bar 19 the pusher arm 15 will be 21 or any suitable part of the frame 10 swung to the position illustrated in Figure through the medium of a fulcrum pin 42. 2 of the drawing. When the slide 12 ap- At its upper end the lever 41 is provided proaches the limit of its movement toward with a laterally projecting portion 41° hav-⁵⁰ the left the roller 18 will pass along the in- ing an inclined surface 41⁵ for a purpose 115 clined portion 19t of the cam bar and will hereinafter described. At its lower end said finally reach a position so that it will be lever carries a pin 43 which is positioned again free to move toward the right without to cooperate with the cam 40 heretofore referred to. A spring 44 holds the lever 41 The elevator bar designated by the nu- normally in such position that the cam 40 120 meral 20 is adapted to lift matrices from an- will contact with the pin 43 secured thereto. other part of the machine and hold them in The cam 40 is provided with a high portion 40° and it will be understood that when such high portion of the cam comes in contact with the pin 43 of the lever 41 the clutch 125 member 25 will be caused to move away from the gear wheel 24 at which time rotation of the clutch member 25 and the rotary member 23 driven thereby will cease.

The lever 41 at certain intervals is caused 130

5 mechanism. A shaft 50 is rotatably mounted in doing so causes rotation of the rotary 70 in suitable brackets 51 secured to the frame member 23 to which the arm 35 is secured. arm 52 and at the other end an operating of the connecting link 36 causes movement 10 the shaft 50 which spring tends to hold the toward the right. This slide when at rest 75 52 will normally occupy the position shown cent the end of the distributing screws A. in Figure 3. The thrust arm 52 is so posi- As the slide moves toward the left the arm tioned that it will be struck and moved by 15 pivotally secured thereto is swung to the 15 the elevator bar 20 as the latter approaches position shown in Figure 2, by reason of 80 its uppermost position. When the elevator the contact of roller 18 with the rear of the bar contacts with the thrust arm 52 the lat- cam bar 19. When the slide reaches the ter is moved into the position shown in Fig- limit of its movement to the left the arm 15 ure 2.

in a horizontal position by means of a coiled time being free from the cam bar 19 and spring 53^b mounted on the pivot pin 53^c by the member 15^a being in position to move which the trigger 53° is pivoted to the arm the matrices from the elevator bar 20 as the understood that as the operating lever is lows that when the matrices are stopped adthe trigger 53 will contact with the face 41^b spring 37 will be compressed between parts named lever will be caused to swing about will thus be fed or pushed into the distributits fulcrum pin 42. After the trigger passes ing mechanism by the arm 15 acting under the laterally projecting portion 41° of the the influence of the compressed spring 37. spring 44. As the lever 53 moves upwardly supply of matrices carried by the elevator the trigger 53a will yield and move past the bar have been pushed from said bar by the projecting portion 41^a of the lever 41. arm 15 and while this arm is still pressing

some extent and a brief general statement downwardly and when this takes place the of the operation will suffice. When the ele-thrust arm 52 will assume the position vator bar 20 carrying the supply of mat-shown in Figure 3 and the operating arm rices approaches its uppermost position it 53 will be moved to its original position 52 from the position shown in Figure 3 to free from the influence of the operating arm that shown in Figure 2, such movement of 53 the spring 44 will move said lever 41 so the thrust arm causing rotation of the shaft that the pin 43 will again be in position to wardly the trigger 53^a pivoted to the end of ber 25 continues to rotate the high portion the same will contact with and move the le- of the cam 40° contacts with said pin 43 and ver 41 about the fulcrum 42, such movement withdraws the clutch member from contact of the lever 41 causing the pin 43 carried with the gear wheel 24 whereupon rotation with the cam 40 secured to the clutch mem- of the slide 12 toward the left will not ocber 25. The clutch member under the in- cur again until the elevator bar again confluence of the spring 27 then moves into tacts with the thrust member 52 and moves contact with the gear wheel 24 which is con- the various parts so as to cause the opera-65 stantly rotated through the medium of the tion to be repeated.

to move about its fulcrum pin 42 so as to spur gear 30, shaft 31 and driving mechadisengage the pin 43 from the high portion nism heretofore referred to. When the of the cam, such movement of the lever 41 clutch member 25 contacts with the gear 24 being brought about by the following such clutch member is caused to rotate and 10 which shaft carries at one end a thrust Movement of this arm through the medium arm 53. A coiled spring 54 is mounted on of the slide 12 first toward the left and then shaft in such position that the thrust arm is positioned near the frame 10 and adjaunder the influence of the spring 14^a as-The operating arm 53 carries at its end a sumes a vertical position, as shown in Fig. 85 pivoted trigger 53a which is normally held ure 3 of the drawing, the roller 18 at such 25 53. The trigger 53^a has a projection 53^d slide 12 and arm 15 moves to the right. It 90 which is normally held in contact with a will be understood that after the arm 15 part of the arm 53 by means of the spring pushes the matrices from the elevator bar 53b, heretofore referred to. The trigger 53a the matrices will be halted and fed one by is also provided with an inclined face 53° one into the distributing mechanism in the 30 which cooperates with the inclined face 41^b usual way. Since the arm 35 does not stop 95 on the lever 41 (see Figure 10). It will be until a complete rotation is made, it folcaused to move downwardly the face 53° of jacent the distributing mechanism the 35 of the lever 41 with the result that said last 36^b and 36^a of the link 36. The matrices 100 lever 41, this lever will be restored to nor- 1t will also be understood that the parts of 40 mal position under the influence of the the mechanism are so timed that when a 105 The operation of the various parts of the the matrices toward the distributing screws 45 mechanism have already been described to A the elevator bar will be free to move 110 50 will contact with and move the thrust arm above the lever 41. When the lever 41 is 115 50 and movement of the operating arm 53. contact with the high portion 40° of the cam
55 As this latter arm is caused to move down- 40, the result being that as the clutch mem- 120 60 by such lever to be withdrawn from contact of the member 23 ceases and the movement 125

by Letters Patent is:

mechanism, a pusher-arm, pivotally supfor holding the first named end thereof out mechanism. of its normal position during travel in the 6. The combination with a distributing opposite direction.

20 ing mechanism of means for holding mat- arm toward and from said mechanism, 85 and from said distributing mechanism, for swinging the arm out of such position 25 means for holding one end of said pusher- as it moves in the opposite direction. to said distributing mechanism as said slide travels toward said mechanism, and means

direction.

slide, means for reciprocating the same, a shaft rotatably mounted on said slide, a pusher-arm having one end secured to said action of said last named mechanism. shaft, a second arm also secured to said being positioned to move free of said cam bar when said slide moves in one direction, and means for causing said second arm to said slide in the opposite direction.

ing mechanism of means for holding matrices in position adjacent said distributor means. 50 mechanism, a slide, means for reciprocating tributing mechanism, whereby during such 10. The combination with matrix dislast named movement said shaft is caused to tributing mechanism of means for elevating rotate and said pusher-arm is moved out of its normal position.

Having thus described the invention what ing mechanism of means for holding matis claimed as new and desired to be secured rices in position adjacent said distributing mechanism, a slide, means for reciprocating 1. The combination with matrix distribut- the same toward and from said distributing 5 ing mechanism of means for elevating mat- mechanism, a shaft rotatably mounted on 70 rices and holding the same adjacent said said slide, a pusher-arm secured at one end to said shaft, means for holding the other ported intermediate its ends, means for mov- end of said pusher-arm normally in posiing the same toward and from one end of tion to contact with matrices held by said 10 said mechanism, said pusher-arm being nor- matrix holding means, a second arm se- 75 mally positioned to contact with and move cured to said shaft, and means cooperating matrices from said elevating means to said with said second arm for moving the same to distributing mechanism during its travel to-rotate said shaft and move said pusher-arm ward said mechanism, and means cooperat- out of its normal position while the slide 15 ing with the other end of said pusher arm is moving away from said distributing 80

mechanism of an arm for pushing matrices 2. The combination with matrix distribut- into said mechanism, means for moving said rices adjacent thereto, a slide, a pusher-arm means for holding the arm in one position pivotally mounted thereon intermediate its as the same is moved toward the distributends, means for moving said slide toward ing mechanism and stationary cam means

arm normally in position to contact with 7. The combination with matrix distributand move matrices from said holding means ing mechanism of movable means for elevating matrices and holding the same adjacent said mechanism, a movable pusher-arm 30 for contacting with the other end of said adapted to contact with and move the 95 arm for moving and holding the first named matrices from said elevating means to said end of said pusher-arm out of such normal distributing mechanism, a rotatable memposition as said slide travels in the opposite ber, a connecting rod between said member and said pusher-arm, mechanism for inter-3. In a mechanism of the kind described, a mittently rotating said rotatable member. 100 and means controlled by the movements of said elevating means for controlling the

8. The combination with matrix distribut-40 shaft, yielding means for holding said shaft ing mechanism of means for elevating 105 in one position, a cam bar, said second arm matrices and holding the same in desired position, a slide, a pusher-arm mounted on said slide and adapted to contact with and move the matrices from said lifting means 45 engage said cam bar during movement of to said distributing mechanism, means for 110 moving said slide, and rotatable means con-4. The combination with matrix distribut- trolled by the movements of said elevating means for operating said slide moving

9. The combination with matrix distribut- 115 the slide, a shaft rotatably mounted on said ing mechanism of means for elevating slide, a pusher-arm secured at one end to matrices and holding the same adjacent said said shaft and having the other end thereof mechanism, a slide, a pusher-arm mounted normally positioned to move the matrices thereon and positioned to move the matrices 55 from said holding means to said distribut- from said elevating means to said distribut- 120 ing mechanism when said slide travels to- ing mechanism, means for reciprocating said ward said distributing mechanism, a second slide including an intermittently rotatable arm secured to said shaft, a cam positioned member, and means operable by the moveto contact with and move said second arm ments of said elevating means for control-60 when said slide moves away from said dis- ling the operation of said rotating member. 125

matrices and holding the same adjacent said mechanism, a slide, a pusher-arm mounted 5. The combination with matrix distribut- thereon and adapted to move matrices from 130

said elevating means to said distributing ber arranged to move into and out of conmember, and means operated by the move-5 ments of said elevating means for initiating the movements of said rotating member.

11. The combination with matrix distributing mechanism, of means for elevating matrices and holding the same adjacent said 10 mechanism, a pusher-arm for moving matrices from said elevating means to said distributing mechanism, means for causing said pusher-arm to intermittently move toward said distributing mechanism and return to 15 its initial position including a rotatable member, a movable thrust member positioned in the path of movement of said elevating means, and means operable by the movements of said thrust member for initiat-20 ing the movements of rotatable member.

12. The combination with matrix distributing mechanism of means of elevating matrices and holding the same adjacent said mechanism, a slide, a pusher-arm mounted 25 thereon and adapted to move matrices from said elevating means to said distributing mechanism, a rotatable element and means for constantly rotating the same, a clutch member adapted to contact with and be ro-30 tated by said rotatable element, means operated by the rotation of said clutch member for moving said slide, means for sepa-35 the movement of the former, and means op-nism, a continuously rotating wheel ar-100 rotatable element.

45 mechanism, a wheel, and means for con-revolution and means connected to said 110 member arranged to move into and out of rotation of the latter will move the former. 50 member for moving said pusher-arm, means thereon, an elevator bar adapted to lift 115 ment of the former, and means for causing wheel mounted on said frame, a clutch ar-55 wheel when said elevating means reaches a rotate therewith, means controlled by the 120 nism.

60 matrices and holding the same adjacent said from said elevator bar to said distributing 125 mechanism, a slide, a pusher-arm mounted mechanism. ing mechanism, a gear wheel and means for 65 constantly rotating the same, a clutch mem-

means, intermittently operating mechanism tact with said gear wheel and to rotate therefor moving said slide including a rotatable with, means operatively connected to said clutch member for moving said slide, means for causing said clutch member to move out 70 of contact with the said gear wheel when said member has completed substantially one revolution, a thrust member positioned in the path of movement of said elevating means, and means controlled by the movements of 75 said thrust member for causing said clutch member to contact with said gear wheel.

> 15. The combination with matrix distributing mechanism of means for elevating matrices and holding the same adjacent said 80 mechanism, a slide, a pusher-arm mounted thereon, a gear wheel, a rotatable member having a hub on which said gear wheel is rotatably mounted, means connected to said rotatable member and said slide for recipro- 85 cating the latter, a clutch member slidably secured to said hub, means for yieldingly holding said clutch member in contact with said gear wheel, a cam on said clutch member, a pivoted lever provided at one end 90 with a pin normally positioned to contact with said cam and move said clutch member away from said gear wheel, and means for moving said lever to withdraw said pin from said cam when the elevating means reaches 95 its uppermost position.

16. The combination with distributing rating said clutch member from said rota- mechanism of an elevator for lifting matrices table element at a predetermined point in and holding the same adjacent said mechaerable by said elevating means as the same ranged adjacent said distributing mechaapproaches its uppermost position for caus- nism, a clutch member arranged concentric ing said clutch member to contact with said with said wheel, a pusher arm adapted to push matrices from said elevator toward said 13. The combination with matrix dis-distributing mechanism, means controlled by 105 tributing mechanism of means for elevating the movements of said elevator for causing matrices and holding the same adjacent said said clutch member to engage said wheel, mechanism, a pusher-arm for moving the means for stopping rotation of said clutch matrices from said elevating means to said member after the same has completed one stantly rotating the same, a rotatable clutch pusher arm and said clutch member whereby

contact with said wheel to rotate therewith, 17. In a mechanism of the kind described, means operatively connected to said clutch a frame, matrix distributing means mounted for separating said clutch member from said matrices and hold the same adjacent said wheel at a predetermined point in the move-distributing means, a constantly rotating said member to again contact with said gear ranged adjacent said wheel and adapted to position adjacent said distributing mecha- movement of said elevator bar for causing said clutch to be connected with and dis-14. The combination with matrix dis-connected from said wheel and means contributing mechanism of means for elevating nected to said clutch for moving matrices

thereon and positioned to move matrices 18. In a mechanism of the kind described, from said elevating means to said distribut- a frame, matrix distributing means mounted therein, said means including a plurality of distributing screws and gears for driving the 130

same, an elevator adapted to lift matrices and hold the same adjacent said distributing means, a pusher-arm for moving the matrices from said elevator to said distributing 5 means, a gear wheel mounted on said frame and operatively connected to one of said first mentioned gears, and means operated by said gear wheel for moving said pusher-arm, said means including a member adapted to con-10 tact with said gear wheel and rotate therewith during one revolution of said wheel and means for automatically disconnecting said member from said gear wheel after the same has completed substantially one revo-15 lution.

> frame, matrix distributing mechanism ber, a spring link connecting said member direction. and said slide, a constantly rotating gear 22. In a device of the kind described, a to engage said cam and move said clutch member away from said cam, and an arm on 40 said shaft adapted to contact with said lever and withdraw said pin from said cam.

20. In a device of the kind described, a frame, matrix distributing mechanism mounted thereon, an elevator for lifting

matrices and holding the same adjacent said 45 mechanism, a slide, a pusher-arm on said slide adapted to move matrices from said elevator to said distributing mechanism, a rotatable member on said frame, a spring link connection between said member and said 50 slide, a constantly rotating gear wheel on said frame, and means controlled by movements of said elevator for causing said gear wheel to intermittently impart a complete rotation to said rotatable member.

21. The combination with matrix distributing mechanism, of means for elevating and holding matrices in position adjacent said distributing mechanism, a slide, means for 19. In a device of the kind described, a reciprocating the same, a pusher arm pivot- 60 ally mounted intermediate its ends on said mounted thereon, an elevator adapted to lift slide, means for holding one end of said matrices and hold the same adjacent said pusher arm normally in position to contact 20 mechanism, a slide, a pusher-arm positioned with matrices held by said matrix holding to contact with and move matrices from said means, a cam positioned adjacent the path 65 elevator to said distributing mechanism, a of movement of said slide for contacting shaft rotatably mounted on said frame, a with the other end of said pusher arm, means thrust member secured to said shaft and for causing the last named end of said arm 25 normally positioned in the path of move- to engage and travel along said cam in movment of said elevator, means mounted on ing away from said distributing mechanism, 70 said frame for moving said slide, said last said last named end of said arm being free named means comprising a rotatable mem- from said cam when moving in the opposite

wheel, a clutch member operatively connect-frame, matrix distributing mechanism 75 ed to said rotatable member and movable mounted thereon, elevating means for lifting into and out of contact with said gear wheel, matrices and holding the same adjacent said a spring positioned to bear against said mechanism, a slide, a pusher arm on said 35 clutch member and tending to move the slide adapted to move matrices from said same toward said gear wheel, a cam on said elevating means to said distributing mecha- 80 clutch member, a lever having a pin adapted nism, a rotatable member on said frame, a spring link connection between said member and said slide, and means for intermittently rotating said member whereby said slide and pusher arm are caused to move toward and 85 from said distributing mechanism.

In testimony whereof I affix my signature. FREDERICK W. LETSCH