

No. 776,439.

PATENTED NOV. 29, 1904.

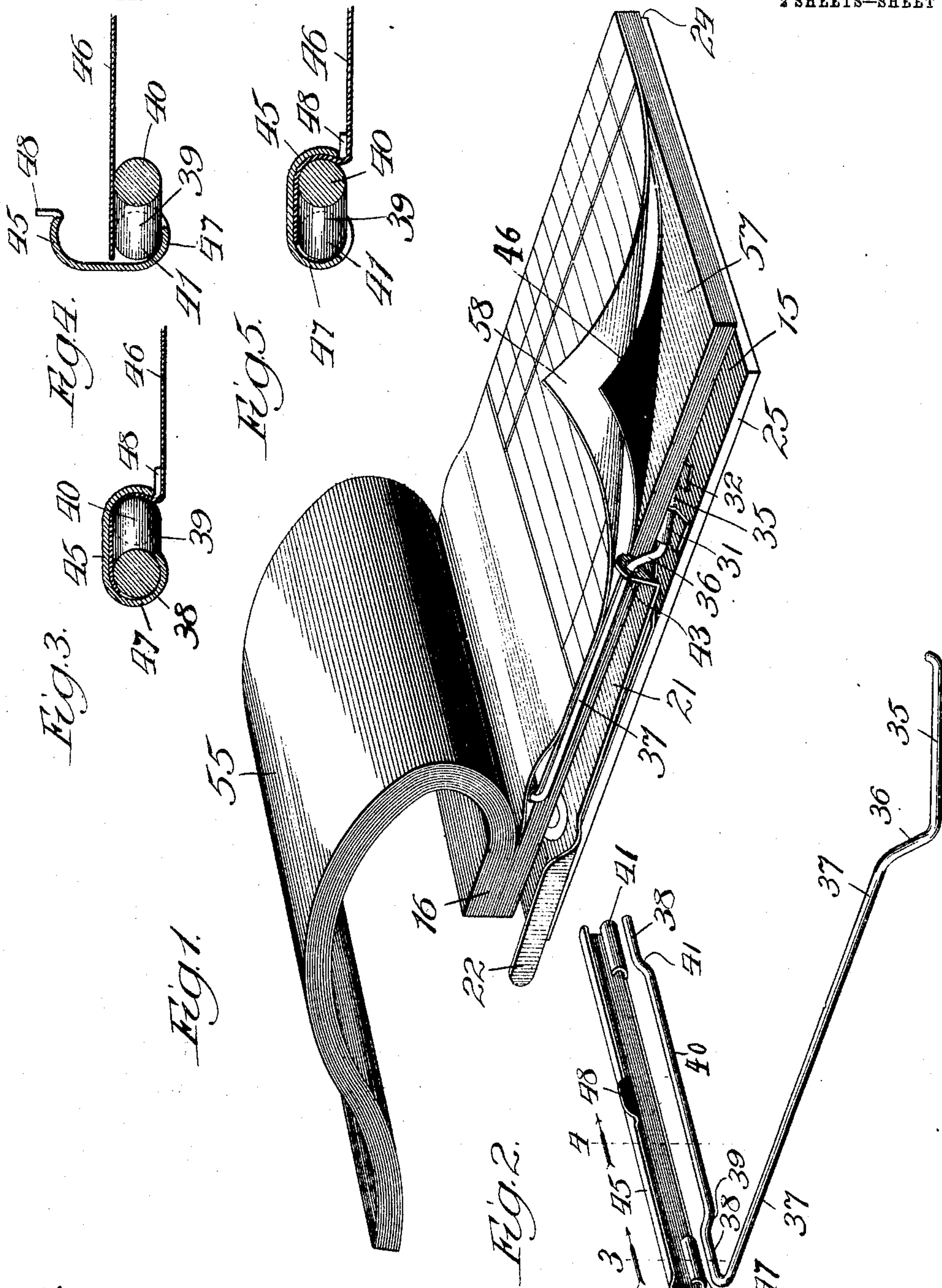
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MANIFOLDING SALES BOOK MANIPULATOR.

APPLICATION FILED AUG. 29, 1904.

NO MODEL.

2 SHEETS—SHEET 1.



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2 SHEETS—SHEET 2.

Fig. 6.

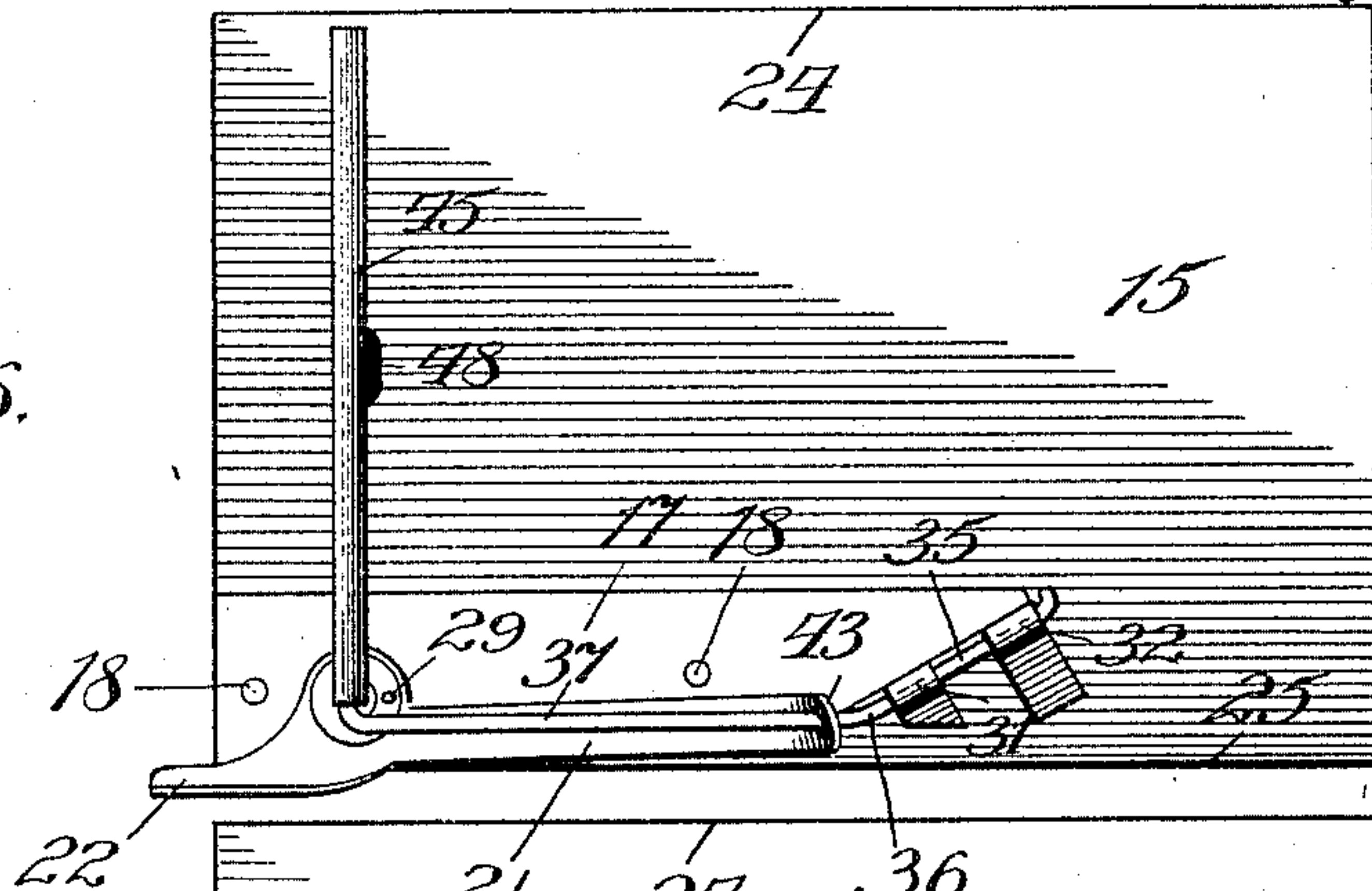


Fig. 7.

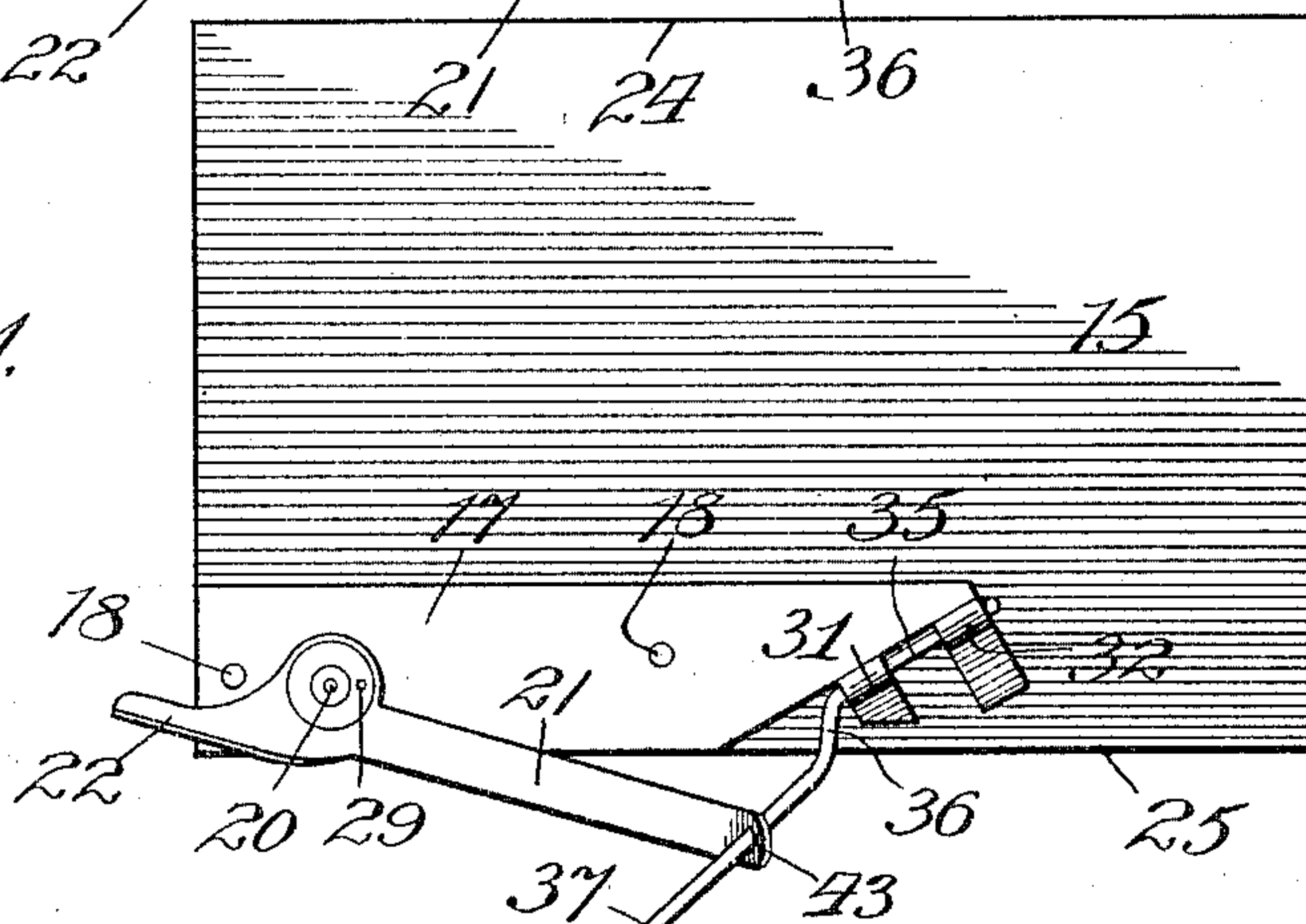


Fig. 8.

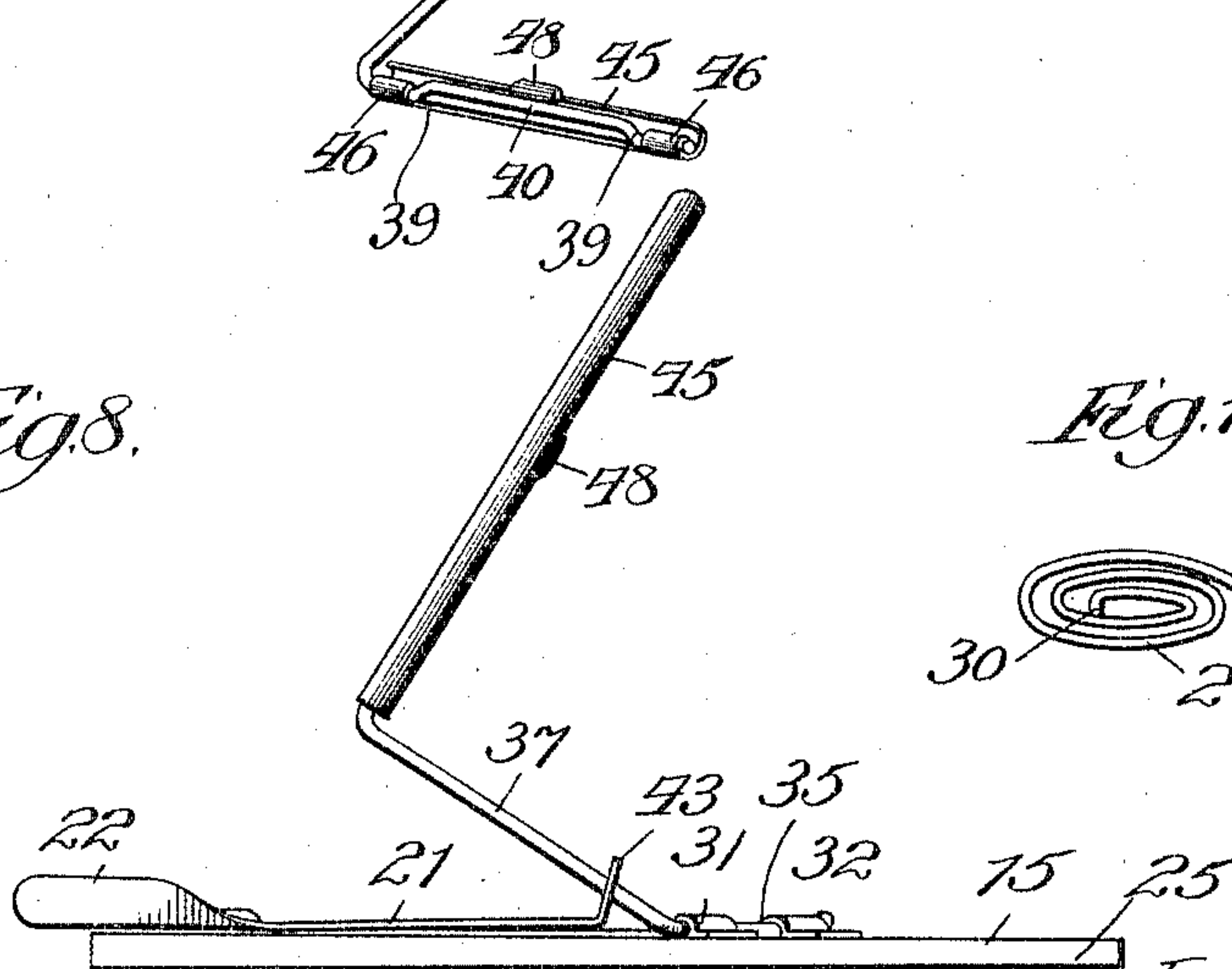


Fig. 10.

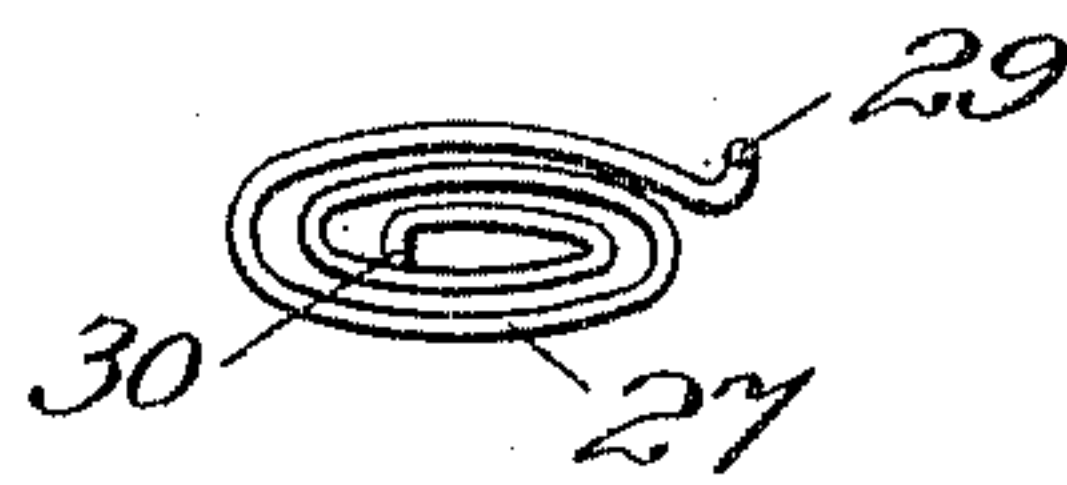
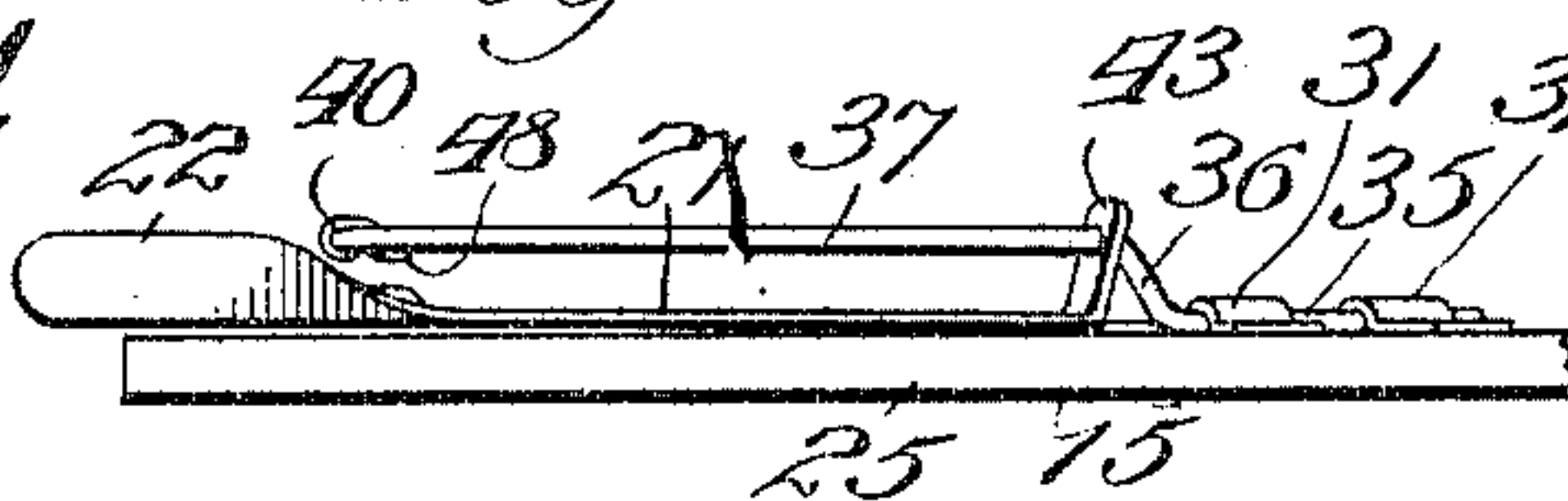


Fig. 9.



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# UNITED STATES PATENT OFFICE.

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## MANIFOLDING-SALES-BOOK MANIPULATOR.

SPECIFICATION forming part of Letters Patent No. 776,439, dated November 29, 1904.

Application filed August 29, 1904. Serial No. 222,568. (No model.)

*To all whom it may concern:*

Be it known that I, ALBERT R. TURK, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Manifold-Sales-Book Manipulator, of which the following is a specification in its best form now known to me, reference being had to the accompanying drawings, in which similar numerals indicate the same parts throughout the several views.

It is almost the universal practice in modern retail stores to provide each salesman with a book containing alternately fixed and removable sheets, the removable sheet being the original pencil-record, to be delivered to the customer either personally if the goods are delivered to him or with the goods if such goods are delivered by a messenger, the other sheet to be retained permanently in the sales-book, a carbon copy of the original order appearing thereon. The primitive way of doing this is for the salesman to take a sheet of carbon-paper, place it between the first removable sheet and the first permanent sheet, write his order, tear off his removable sheet, take hold of the carbon-sheet, and place it between the next two sheets which are to be so used. This operation is inconvenient because the handling of the carbon soils the salesman's hands, thereby incidentally spoiling the carbon. It is not easy to keep the carbon smooth, as it should be for satisfactory work. There is also danger of the carbon being lost, and in the case of grocery or meat salesman taking orders at the kitchen-door, as is frequently done, it is absolutely impossible to carry out this operation without removing winter-gloves, thereby causing loss of time and subjecting the salesman to unnecessary exposure.

My invention relates to novel mechanism by which this transferring of the carbon can be done by the simple pressing of a lever.

It also relates to a novel means for securing the carbon to the transferring mechanism.

The object of my invention is to provide such mechanism, which can be easily and cheaply made, which shall be efficient in operation and not readily liable to get out of

order, and which when out of order can be readily repaired and maintained.

My invention consists in a novel form of mechanism capable of accomplishing the above objects, and more particularly in means for detachably securing the carbon-sheet on the mechanism for transferring it from one position to another and also in such transferring mechanism itself.

My invention also consists in many details of construction which will be hereinafter more fully described and claimed as the specification proceeds.

Figure 1 of the drawings is a perspective view of an order-book having mechanism illustrating my invention in its preferred form applied thereto. Fig. 2 is a perspective detail view of the carbon-carrying arm and a clip for securing the carbon-sheet on the arm, said clip being removed from the arm and turned to the position in which the carbon can be removed. Fig. 3 is a detail sectional view taken on line 3 of Fig. 2, showing the parts when the carbon-sheet is secured in the clip-holder. Fig. 4 is a sectional detail view on line 4 of Fig. 2, showing the parts in position there shown, the carbon-sheet being inserted in position ready to be locked in. Fig. 5 is the same view as Fig. 4, the carbon-holding clip being turned to lock the carbon in. Fig. 6 is a plan view of the mechanism of my invention, corresponding to Fig. 1. Fig. 7 is a plan view of the same parts as in Fig. 6, showing the positions they assume when the carbon-transferring mechanism is at the extreme limit of its throw in the act of transferring the carbon. Fig. 8 is a side view of Fig. 7. Fig. 9 is a side view of Fig. 6. Fig. 10 is a detail view of the coiled spring for retaining the parts in normal position and returning them to that position when moved out of it.

Again referring to the drawings, the numeral 15 represents a base of an ordinary order-book holder made of wood, metal, pulp-board, or any other suitable material, such as now used for the purpose in such books of ordinary construction. Adjustably secured to this base by any of the usual means is a pad of order-slips 16, made up of alternately



removable and permanent sheets, as heretofore described. Sometimes a book in which all the leaves are removable is used; but this does not affect my invention in any way.

5 When one of these books is used up, it is taken off from the base 15 and a new book put in its place. The method of attaching this book to the base does not form any part of my invention.

10 For the purpose merely of accuracy in mounting the device upon the base 15 and making the carbon-transferring device thereby a unit I provide a metallic base-plate 17 and secure it by screws 18 or other suitable means to one edge of the base 15. Where  
15 the book is intended for a right-handed salesman, I secure this plate to the left-hand edge of the base 15.

Pivoted to the plate 17 at 20 is a lever having two arms 21 and 22, the arm 21 extending, as shown, down along the side of the base 15 and the arm 22 being merely a short thumb-plate adapted in the particular device shown to be readily pressed by the left thumb  
25 of the operator and moved from the position of Fig. 6 to that of Fig. 7, this while the operator is holding the whole device in his hand, the ends of the fingers grasping the base 15 at 24 and the edge 25 of the base resting in the hand against the inside of the thumb.  
30 This lever 21 22 is normally held in the position shown in Figs. 1, 6, 9 by a coiled spring 27, mounted in a cavity pressed in the lever or base-piece, or both, and between it and the plate 17, one end, 29, of the spring being  
35 secured to the lever 21 22 and the other end of the spring, 30, being permanently secured to the plate 17.

Pivotally mounted in a bearing or bearings 31 and 32 on the plate 17, at an angle of approximately thirty degrees to the side 25 of the base 15, is an angular carbon-transferring member bent in substantially the lines shown in the drawings, and more particularly described as follows: first, the journal portion  
45 35 then the portion 36 bent upward and outward to a point near the edge 25 of the base 15, thence horizontally up the side of the base in an approximately straight line 37 to a point  
50 which is at approximately a quarter to a half an inch below the hinge of the leaves 38 of the order-book, thence at approximately right angles across the book in a line 38, this portion being, for the purpose of the carbon-holder  
55 only, bent in an offset, as shown in Fig. 2 in the lines 39 40 41. Inclosing this rod just described at approximately the junction of the portions 36 and 37 is an angular end 43 of the lever-arm 21. The angle of this member 43 is of some importance in causing the  
60 mechanism to operate through all of its desired positions without any accidental locking of the device.

In order to secure the carbon-sheet 46 to  
65 the angular carbon-moving member described,

I provide a clip 45, hinged at 47 to the portions 38 of the angular member. This clip 45 is, as shown in Figs. 2 and 5, inclusive, so shaped and proportioned that it is adapted to fit down over the portion 40 of the angular  
70 member and when in such position hold the carbon in position and when raised to the position shown in Figs. 2 and 4 to permit the carbon to be inserted or removed. A lip 48 is provided on this clip 45, so that the sales-  
75 man may use either his thumb or his finger nail or any mechanical device to swing this clip 45 from the position shown in Figs. 3 and 5 and into the positions shown in Figs. 2 and 4, and vice versa. The offset 40 is, as shown,  
80 made parallel to the flat plane of the carbon-book, and the clip 45 is also made to fit over this in as near a flat position as possible, thereby allowing the device to fit easily in  
85 between the leaves of the carbon-book without distorting the position of the leaves.

In the operation of my device I first raise the clip 45 to the positions shown in Figs. 2 and 4 and take a sheet of carbon-paper 46 and place it in the position shown in Fig. 4 inside  
90 the clip 45 and take hold of the lip 48 and turn the clip 45 to the position shown in Figs. 3 and 5, thereby locking the carbon in position on the angular-armed carbon-transferring member heretofore described. The remain-  
95 ing mechanism of the device is now in the position of Figs. 1 and 6. So I press upon the lever 22 and move it toward the center of the plate 15, thereby raising the clip 45 to the position shown in Figs. 7 and 8. This moves the  
100 carbon 46 up away from the base 15. I now place upon this base a book 16 and turn the lever over the edge of the base into the position shown in Fig. 1 until only the bottom permanent sheet, which in books for this de-  
105 vice should be numbered "1" or the lowest number of that particular book, is at the bottom of the book below the carbon. I now release the lever 22, and under the action of spring 27 the parts assume the position of Figs. 1  
110 and 6, with the carbon upon the permanent sheet. I now by hand lay the first removable sales-sheet upon the carbon, and then we have all the parts in the position of Fig. 1. The salesman now writes his order upon  
115 this removable sheet 58 and removes it from the book and by hand lays the second permanent sheet 55 over the carbon-sheet 46. In this position we have the corresponding permanent sheet 57 and the new permanent sheet  
120 55 in proximity to each other with the carbon-sheet 46 between them, and the problem is to move the carbon-sheet out of this position to one in which it is above the second permanent sheet 55 ready for use. This is done by  
125 simply pressing upon the lever 22 and moving the parts to the position of Figs. 7 and 8. As the clip 45, with the carbon-sheet upon it, is thus raised out it also raises the permanent sheet 55 up, and as the clip 45 reaches approxi-  
130



mately the position shown in Figs. 7 and 8 this second permanent sheet 55 falls by its own weight down under the carbon-sheet 46 upon the first permanent sheet 57. As soon as this occurs the salesman releases the lever 22 and the carbon descends to its normal position down upon the second permanent sheet ready for use. The salesman now with his thumb or finger moves the second removable sheet down upon the carbon, which, as heretofore described, is over the second permanent sheet, and writes his order. When this is done, he repeats the operation, thereby almost instantly bringing the third permanent and removable order-sheets in position ready for use. When orders are taken for delivery later, as at the kitchen-door, the removable order-slips are usually left in the book with the permanent sheets; but this does not affect the operation of the device. The mechanism merely causes the carbon-holder to jump two sheets of paper instead of one.

The foregoing description is, owing to the inadequacy of showing mechanical movements on paper, much more complicated and takes much more time than the actual operation of the device, which is in practice very easy and almost instantaneous. When such a device is desired for the use of a left-handed salesman, he can either take the book here shown in his right hand and press the lever 22 with his fingers instead of his thumb, or a left-handed book can be prepared, using corresponding parts arranged in proper position for use in exactly the same way when placed in the right hand.

I am aware that many attempts have been made to make mechanical devices to do the work of my device and that some patents have been taken out thereon; but I do not know of any device except mine which is practically commercial for the work desired of it.

I do not want to be understood as limiting myself to the exact mechanical details, which may be varied within reasonable limits without departing from my invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In mechanism of the class described an arm having an offset therein parallel to the main portion of the arm, and a clip hinged upon the main portion of said arm adapted to swing over and clamp upon said offset, whereby a carbon-sheet may be secured to said arm substantially as described.

2. In mechanism of the class described the carbon-holding device consisting of an arm having an offset 40 therein, a hinged clip 45 rotatably secured to the ends 38 of this arm adapted to swing up in one position, for the insertion of a carbon-sheet, and adapted to swing down in another substantially flat position, in which position it engages the offset 40 and secures a carbon-sheet to the arm, all

of the parts being arranged and disposed substantially as shown and described for the purposes set forth.

3. In mechanism of the class described the combination of a base adapted to hold a sales-book, a sales or order book secured thereto, an arm pivoted to said base at an angle and thence extending up along the side of said base and having another arm at approximately a right angle thereto, extending across the page of said book, means for securing a sheet of carbon-paper to said last arm, and a lever adapted to be operated by the thumb or fingers of the salesman while holding the book in his hand, engaging said first-mentioned arm to operate it as described.

4. In mechanism of the class described the combination of a base having a sales or order book secured thereto and a bent-lever member consisting of; a bearing member 35 mounted at approximately thirty degrees to the side of the base; a member 36 extending angularly upward; a normally horizontal member 37 extending up the side of the base or order-book; and the portion 38 extending across the order-book, means for securing the carbon-sheet to said last-mentioned member, and a lever having one end adapted to be pressed by the operator while holding the device in his hand, and having its other end engaging the said first-mentioned bent lever to operate it as described.

5. In mechanism of the class described, the combination of a base, having a sales or order book secured thereto, a bent-lever member consisting of; a bearing member 35 mounted at approximately thirty degrees to the side of the base, a member 36 extending angularly upward; a normal horizontal member 37 extending up the side of the base or order-book and thence across the order-book; means for securing the carbon-sheet to said last-mentioned member, and a lever having one end adapted to be pressed by the operator, while holding the device in his hand, and having its other end engaging the said bent-lever member to operate said lever as described, and spring mechanism adapted to normally hold the parts in normal position.

6. As an article of manufacture for use in mechanism of the class described the base-plate 17, a lever having two arms 21 and 22 pivoted to said base-plate at 20, spring mechanism adapted to normally hold said lever in normal position, a bent member adapted to be operated by said lever having an arm 35 pivoted to the base-plate 17 at approximately thirty degrees with the side thereof, a member 36 extending angularly upward therefrom, thence extending along the side of the base-plate 17 or parallel therewith in a straight line 37, and thence in line 38 across the base where the order-book is to be placed and carbon-fastening mechanism on said arm 38.

7. As an article of manufacture for use in



mechanism of the class described the base-plate 17 a lever having two arms 21 and 22 pivoted to said base-plate at 20, spring mechanism adapted to normally hold said lever in  
5 normal position, a bent member adapted to be operated by said lever having an arm 35 pivoted to the base-plate 17 at approximately thirty degrees with the side thereof, a member 36 extending angularly upward there-  
10 from, thence along the side of the base-plate 17 or parallel therewith in a straight line 37,

and thence in line 38 across the base where the order-book is to be placed, and carbon-sheet-fastening mechanism on said arm 38, all of said parts being shaped, arranged and  
15 disposed substantially as shown and described for the purpose set forth.

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