H. H. McFILLEN.

MULTIPLE STAMP.

APPLICATION FILED JULY 18, 1921.

1,398,733.

Patented Nov. 29, 1921.

2 SHEETS—SHEET 1.

FIG. 1.

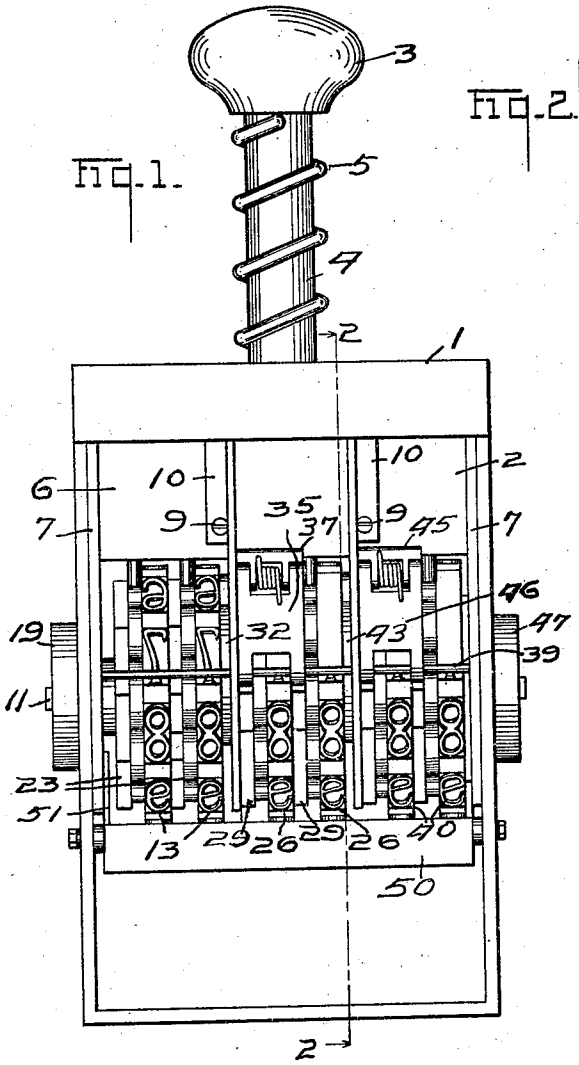


FIG. 2.

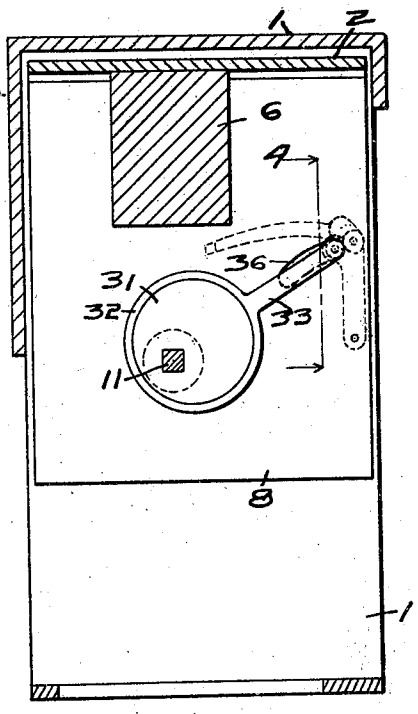
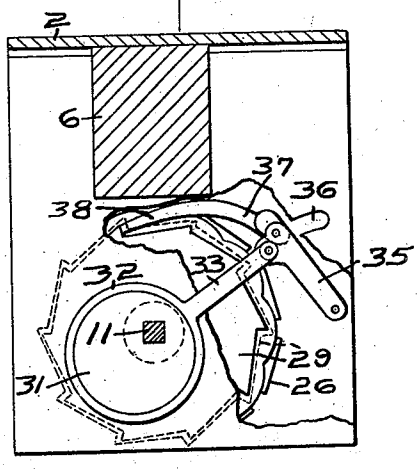


FIG. 3.



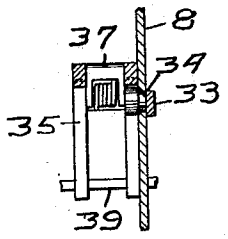


FIG. 4.

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2 SHEETS—SHEET 2.

Fig. 5.

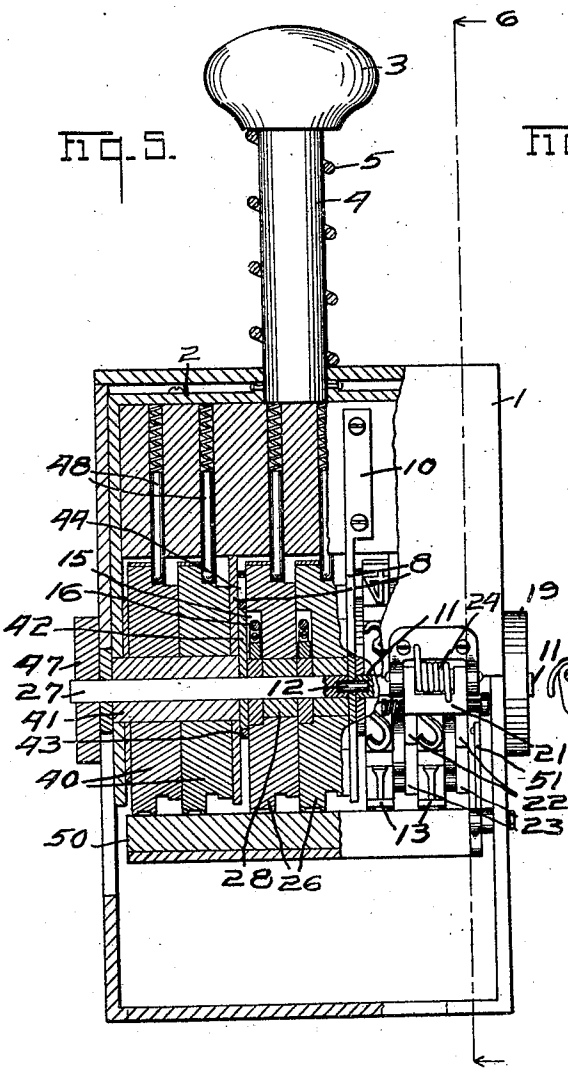


Fig. 6.

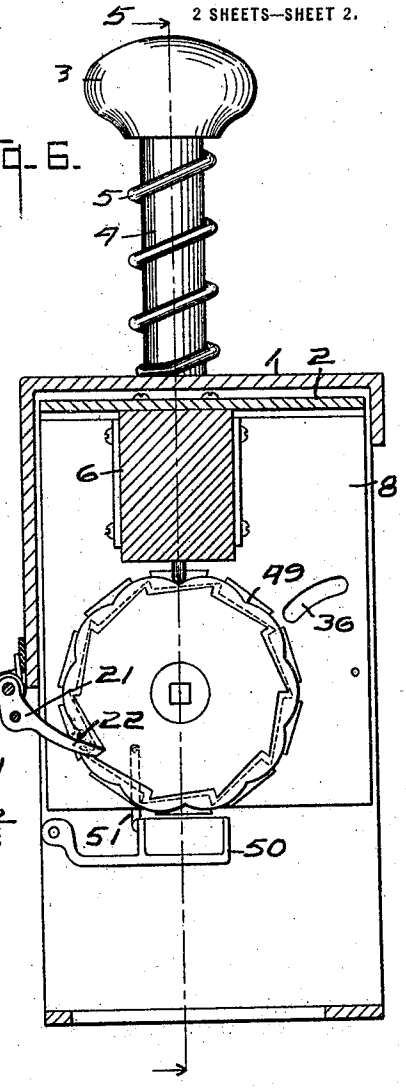
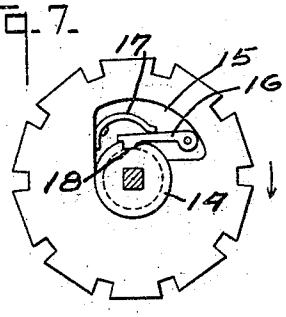


Fig. 7.



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MULTIPLE STAMP.

1,398,733. Specification of Letters Patent. Patented Nov. 29, 1921.

Application filed July 18, 1921. Serial No. 485,416.

To all whom it may concern:

Be it known that I, HARRY H. McFILLEN, a citizen of the United States, and a resident of Toledo, in the county of Lucas and State of Ohio, have made an invention appertaining to Multiple Stamps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings and to the characters of reference marked thereon, which form a part of this specification.

My invention has for its object to provide a stamping device for stamping sets of indicia to indicate a plurality of things that are interrelated, the device being so arranged that the parts may be easily manipulated and reset to indicate the things sequentially as they are presented for marking. The invention particularly has for its object to provide a freight stamp for stamping articles received or sent by freight or express under and in connection with a bill of lading, the ultimate object of the invention being to provide a means whereby articles sent by freight, express, mail, or otherwise, under a bill of lading, may be easily traced. To this end if desired the stamp may be made for duplicate markings, whereby the article may be marked and a copy of the markings may be made on a paper that is retained by the marker.

The invention may be contained in structures of different forms which are included broadly and specifically in the combinations of elements set forth in the claims appended hereto. To illustrate a practical application of the invention I have selected one of such structures as an example, and shall describe it hereinafter. The structure selected is shown in the accompanying drawings.

Figure 1 of the drawings is one side view of the mechanism. Fig. 2 is a sectional view taken on the line 2—2 indicated in Fig. 1. Fig. 3 is a similar sectional view as that shown in Fig. 2, except that a part of the separating plate is broken away. Fig. 4 is a sectional view taken on the line 4—4 indicated in Fig. 2. Fig. 5 is a broken view, a part being shown taken in section along the line 5—5 indicated in Fig. 6, and the other part being a view of a side opposite to that of which Fig. 1 is an illustration. Fig. 6 is a sectional view taken on the line 6—6 indicated in Fig. 5. Fig. 7 illustrates one of the marking wheels and the means for resetting the marking wheels.

1 in the drawings is a frame in which is located a plunger frame 2 that moves within the frame 1. The frame 2 is connected to the handle 3 by means of the shank 4 and the spring 5 is located intermediate the top of the frame 1 and the handle 3. The frame 1 is provided with a guiding block 6 which is attached to the top of the frame 2 and extends across the frame 1 and is connected to the ends 7 of the frame 2. The frame 2 is provided with two partitions or plates 8 that are secured to the block 6 by means of the screws 9 and the flanges 10 that are made integral with the plates 8. The plates 8 and the ends 7 form supporting means for the mechanism that is contained within the frame 1.

A square shaft 11 is supported by one of the sides 7 and pivotally supported on a pin 12 located in one of the plates 8. A pair of marking wheels 13 having notched central disks 14 are supported on the shaft 11. Each of the marking wheels 13 are provided with stamping faces to make suitable marks of any kind. As shown, they are provided with numerals arranged around the periphery of the wheel in the manner well known in the art and are rotatable in one direction about the central disks 14. The marking wheels are provided with recesses 15 in which are located dogs 16 that are spring-pressed by the springs 17. The disks 14 are each provided with a notch 18 so shaped that the ends of the dogs 16 may ride up on one side of the notch but will engage the other side of the notch. When, therefore, the disk 14 is rotated in one direction the dogs 16 will finally drop into the notch and cause the marking wheel to rotate in the same direction. When, however, the marking wheel is rotated in the same direction the dogs 16 will ride out of the notch and onto the periphery of the disk 14. By this arrangement the marking wheels may all be brought to zero by simply rotating the shaft 11 since the dogs 16 will engage the disks 14 at the same point in the rotation of the shaft 11 and thus the marking wheels will be brought so that the same numbers are in alinement and they may both be turned for example so that zero will be stamped when the handle

3 is pushed down. A head or handle 19 is connected to the shaft 11 for convenience of operation.

In the operation of the stamping machine the unit number is stepped around each time the frame 2 is raised by the operation of the spring 5 since each of the marking wheels is provided with a ratchet wheel made integral therewith, and a spring-pressed dog 21 having two prongs 22 is pivotally connected to the frame 1. The dog is pressed toward the ratchet portions 23 of the marking wheels 13 by means of the spring 24. One of the prongs 22 of the dog 21 is made a little longer, so that when it drops into a deeper notch in the ratchet wheel, which is the zero notch, it will allow the other prong 22 to engage the "tens" wheel and step the "tens" wheel around one space in the manner well known in the art. The wheels will thus mark from zero to ninety-nine.

Between the two plates 8 there are located the marking wheels 26 that are mounted on the square shaft 27 in the same manner that the wheels 13 are mounted on the shaft 11. The wheels 26 also rotate about the sleeves or disks 28, the same in form as the disks or sleeves 14 on which the wheels 13 rotate. The marking wheels 26 are also provided with spring-pressed dogs 16 that are located in recesses 15 formed in the wheels 26. The shaft 27 is supported in one of the end plates 7, in one of the partitioning plates 8 and on the pin 12 supported in the other of the partitioning plates. The wheels 26 are also provided with portions 29 having ratchet teeth which coact with the dog 37 to cause step by step movements of the wheels 26 whereby one wheel 26 will mark units and the other wheel 26 will mark tens in substantially the same manner that the wheels 13 are operated. An eccentric 31 is supported on the shaft 11 and by means of the ring 32 it operates the arm 33. The upper end of the arm 33 is provided with a lug 34 that extends through a plate 8 and connects with the pivoted arm 35 located on the other side of the plate. The lug 34 extends through the slot 36. Rotation of the eccentric 31 by the operation of the shaft 11 causes the arm or frame 35 to swing toward or away from the shaft 11. The arm 35 is provided with the spring-pressed dog 37 having two tongues 38. The tongues 38 are of different lengths and so constructed that when one of the tongues drops into a deeper notch of the unit wheel the other of the tongues will engage the "tens" wheel and thus the wheels 26 are operated by the dog 37 in the same manner that the wheels 13 are operated by the dog 21. The arms or frames 38 are pivotally supported on the rod 39. When, however, the marking wheels 13 are cleared, that is, returned to zero by the operation of the handle 19, which is accomplished by the rotation of the shaft 11, the arm or frame 35 is pulled down and at the same time the dog 37 is pushed forward, pushing one or both of the wheels 26 one step forward. The wheels 26 will thus be advanced one step each time the wheels 13 are cleared.

A pair of marking wheels 40 are located between one of the plates 8 and one of the end parts 7 that are supported on the sleeve 41 which surrounds the shaft 27. The wheels 40 are stepped around by means of an eccentric 42 located on the shaft 27 and a ring 43 that is connected to the arm 44 which is connected to a dog 45 through the arm or frame 46 and the dog 45 operates on ratcheted portions 54 of the wheels 40 in the same manner the dog 37 is operated and in turn operates the wheels 26. The wheels 40 are thus operated each time that the wheels 26 are cleared in the same manner that the wheels 26 are given step by step movements when the wheels 13 are cleared. To clear the wheels 26 the shaft 27 is rotated by means of the handle 47 which rotates the disks 14 located within the wheels 26 until the dogs 16 are engaged and the marks of the wheels 26 are brought in alinement, which enables the operator to turn them to the zero marking point. The complete rotation which is thus required of the shafts 11 and 27 to clear the wheels 13 and 26 causes the operation of the eccentrics to cause the adjoining set of wheels to step one step. If it is desired to clear the wheels 40 they may be positioned by an instrument, but this, in the ordinary operation of the machine, is unnecessary.

The wheels are held in the positions that they are turned by means of the spring-pressed pins 48 that enter notches 49 and act as a yielding detent to hold the wheels in position. An inking pad 50 is pivotally supported on the frame 1 and is pushed out of position when the frame 2 descends by means of the arms 51 that are connected to the frame 2 and to the inking pad 50 in the manner well known in the art.

If desired, three wheels may be used in place of each pair of wheels in order to extend the capacity of the machine. Also, if desired, duplicate numbers may be located on the unit wheels in order that duplications of the markings made may be impressed.

The construction described may be utilized in connection with marking freight which has been shipped under or in connection with a bill of lading which gives a list of items and the number of articles shipped under each item. The stamp provides a means for defining or marking each individual article in order that each article may be identified. The wheels 40 will number the bill of lading. The wheels 26 will number and count the items of the bill and the wheels 13 will number and count the articles of each item. In the operation each article

is stamped and thus the article will be stamped with the number of the item and the number of the bill as well as receive its individual number. When all of the articles of an item have been marked the shaft 11 is rotated to clear the wheels 13, that is, to bring them back to the zero point, and in doing so the wheels 26 will be moved to the next step and thus the articles of the next item will be taken up and given their individual article number, their item number, and the bill of lading number. The articles of any particular bill of lading are thus taken up in sequence until all of the articles of the bill of lading have been marked. The wheels 26 are then cleared by the operation of the handle 47 as well as the wheels 13 by the operation of the handle 19. Clearing the wheels 26 will cause the operation of the dog 37 which is connected to the eccentric 42 and cause the wheels 40 to move forward one step, whereupon the next bill of lading may be taken up and the articles of that bill of lading may be stamped. The articles of the second bill of lading will receive their individual marking, the marking of the item under which they are classified, and the number of bill of lading on which they are itemized. Thus each article receives a bill and item marking as well as its individual marking and hence can be readily traced to the bill for consignee or consignor information.

I claim:

1. In a stamping device, a plurality of sets of marking wheels, means for returning one set of wheels and causing another set of wheels to advance one step.

2. In a stamping device, a plurality of sets of marking wheels, means for returning one set of wheels and causing another set of wheels to advance one step, and means for clearing the second set of wheels and causing the third set of wheels to advance one step.

3. In a stamping device a plurality of sets of marking wheels, a shaft, a disk supported within each of the wheels of two of the sets, a dog for connecting the disk to the last named wheels, a pair of shafts for rotating the disks, a pair of dogs for causing the operation of two sets of the wheels upon the return of the adjoining sets of wheels.

4. In a stamping device, a plurality of sets of wheels, a plurality of shafts for supporting the sets of wheels, means for connecting the shafts with the wheels to cause rotation of the sets of wheels, and means for causing step by step movements of one set of wheels and step by step movement of another of the sets of wheels upon rotation of one of the shafts.

5. In a stamping device, a plurality of sets of wheels, a dog for causing step by step movements of one set of wheels, means for returning the wheels of the said set, a dog for causing a step by step movement of the second set of wheels, and means interconnecting the first set of wheels with the second set of wheels to cause the dog to produce step by step movement in the second set of wheels upon the return of the first set of wheels.

6. In a stamping device a plurality of sets of wheels, a dog for causing step by step movements of one set of wheels, means for returning the wheels of the said set, a dog for causing a step by step movement of the second set of wheels, and means interconnecting the first set of wheels with the second set of wheels to cause the dog to produce step by step movement in the second set of wheels upon the return of the first set of wheels, a dog for operating the third set of wheels, and means interconnecting the dog operating the third set of wheels for causing step by step movement of the third set of wheels upon rotation of the second set of wheels.

In testimony whereof, I have hereunto signed my name to this specification.

HARRY H. McFILLEN.