

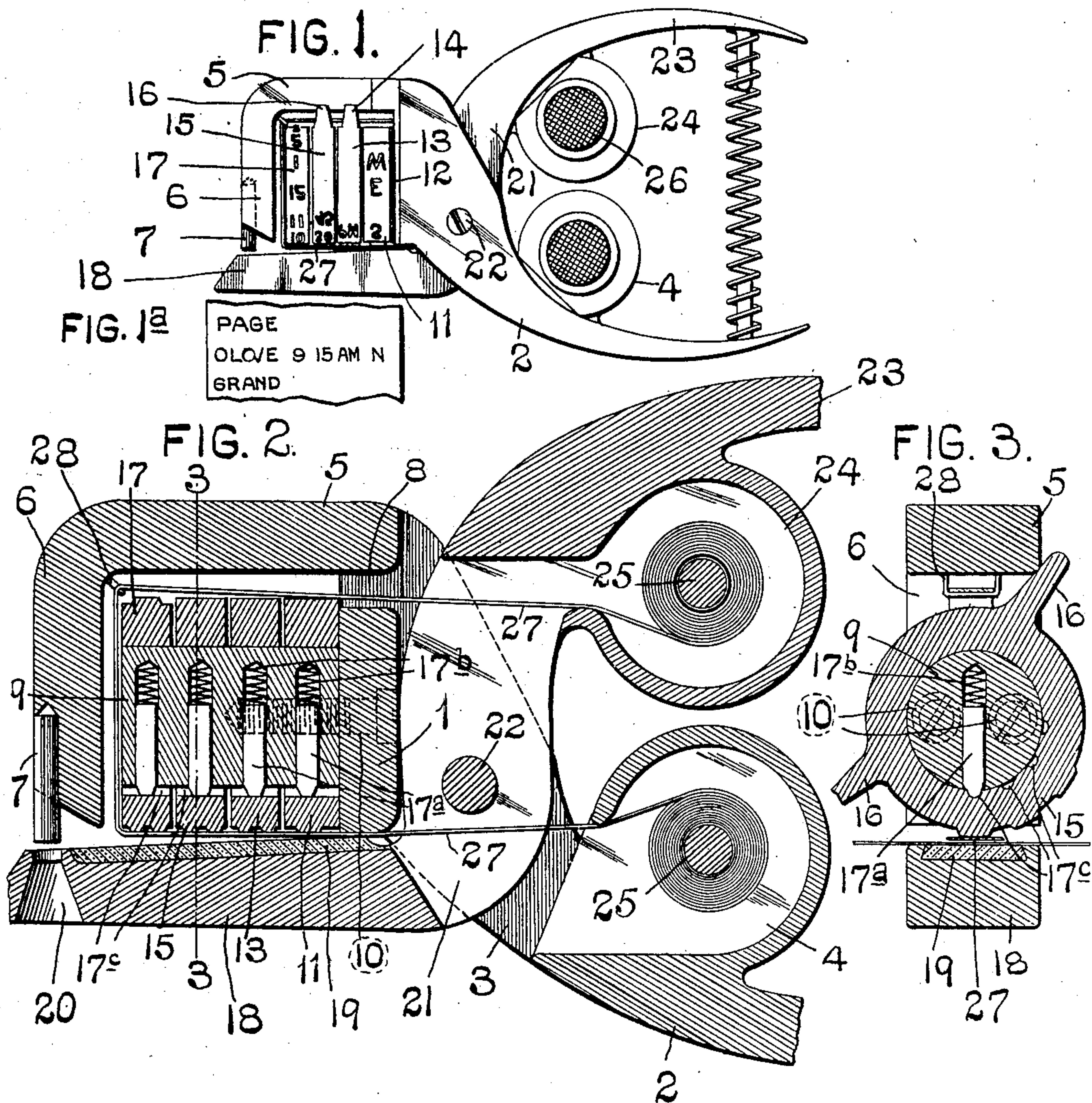
No. 808,994.

PATENTED JAN. 2, 1906.

W. L. LEE.
COMBINED PUNCH AND TIME STAMP.

APPLICATION FILED MAY 1, 1905.

2 SHEETS—SHEET 1.



ATTEST
M. P. Smith,
Edw. M. Harrington

INVENTOR:-
Willis L. Lee.
BY *Nedra & Longan.*
ATTYS.

No. 808,994.

PATENTED JAN. 2, 1906.

W. L. LEE.
COMBINED PUNCH AND TIME STAMP.

APPLICATION FILED MAY 1, 1905.

2 SHEETS—SHEET 2.

FIG. 4.

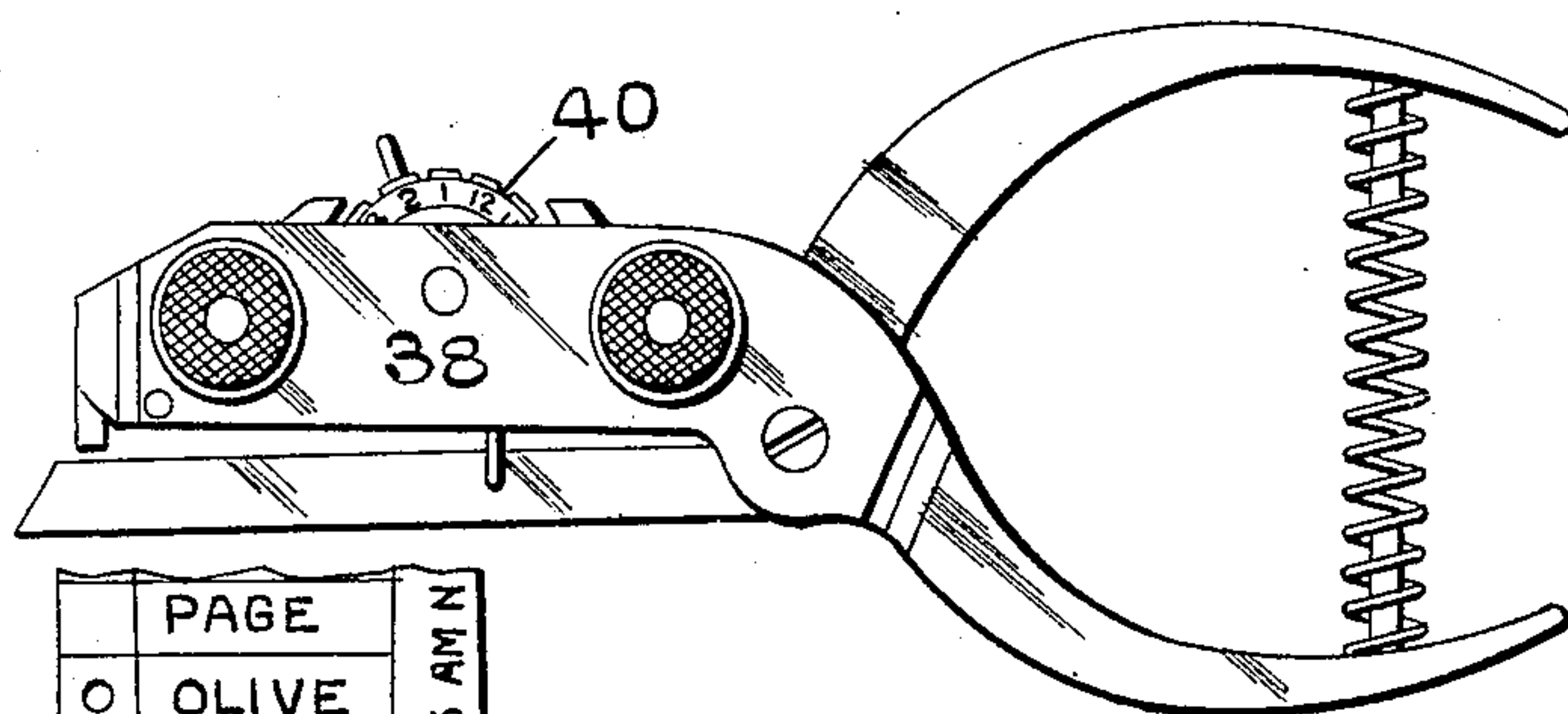


FIG. 5.

	PAGE	
○	OLIVE	9 15 AM N
	GRAND	
	FIFTH	

FIG. 6.

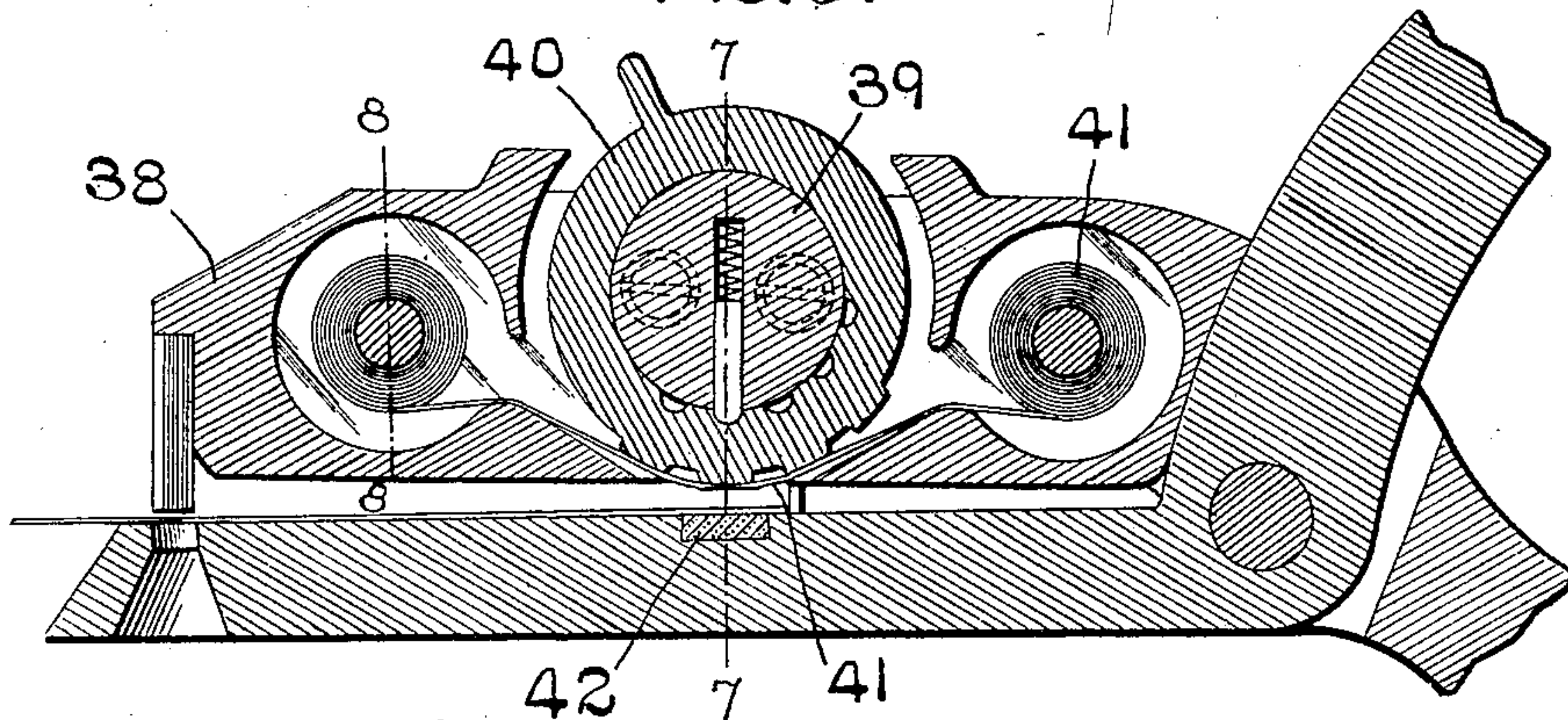


FIG. 7.

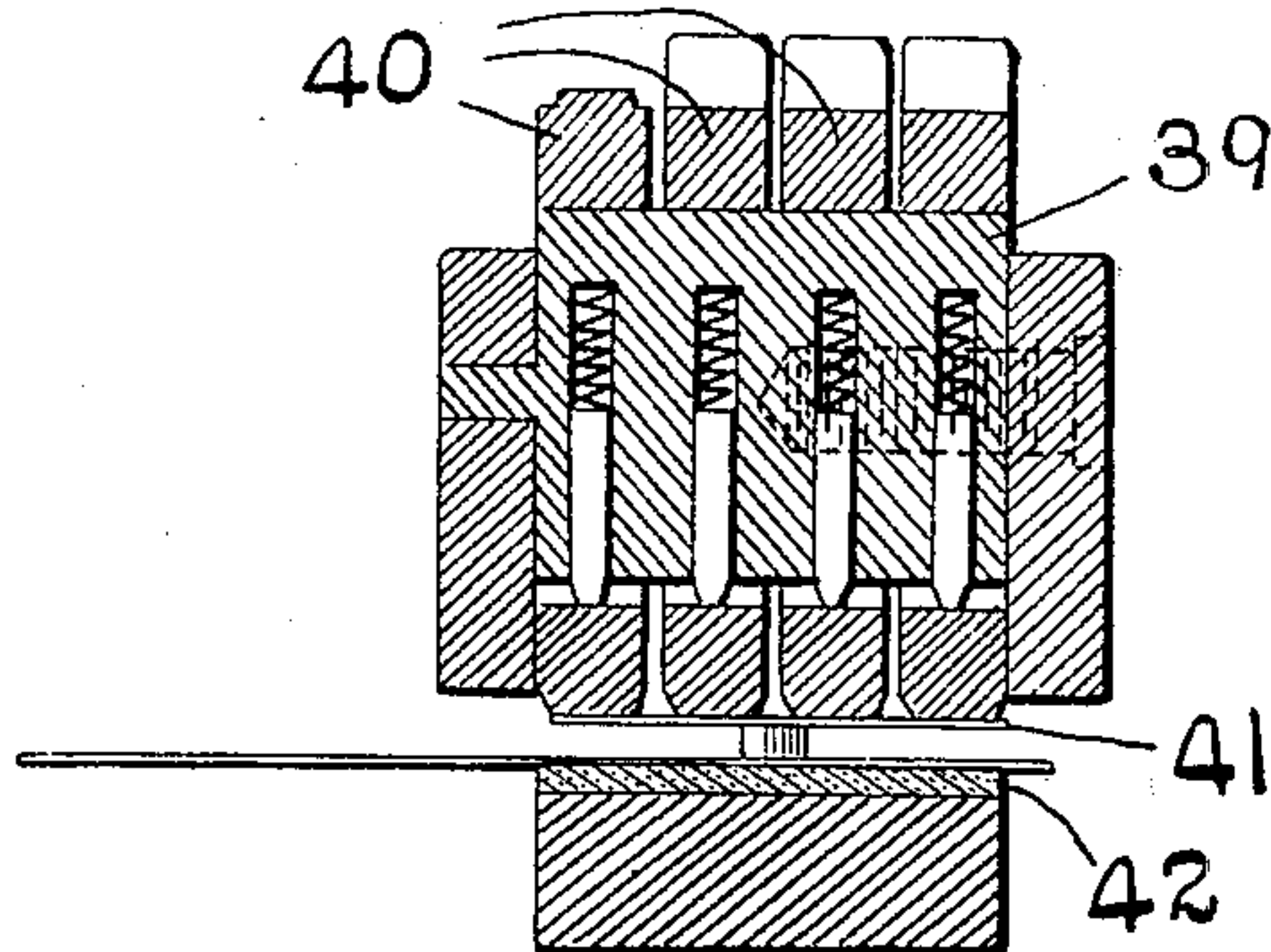
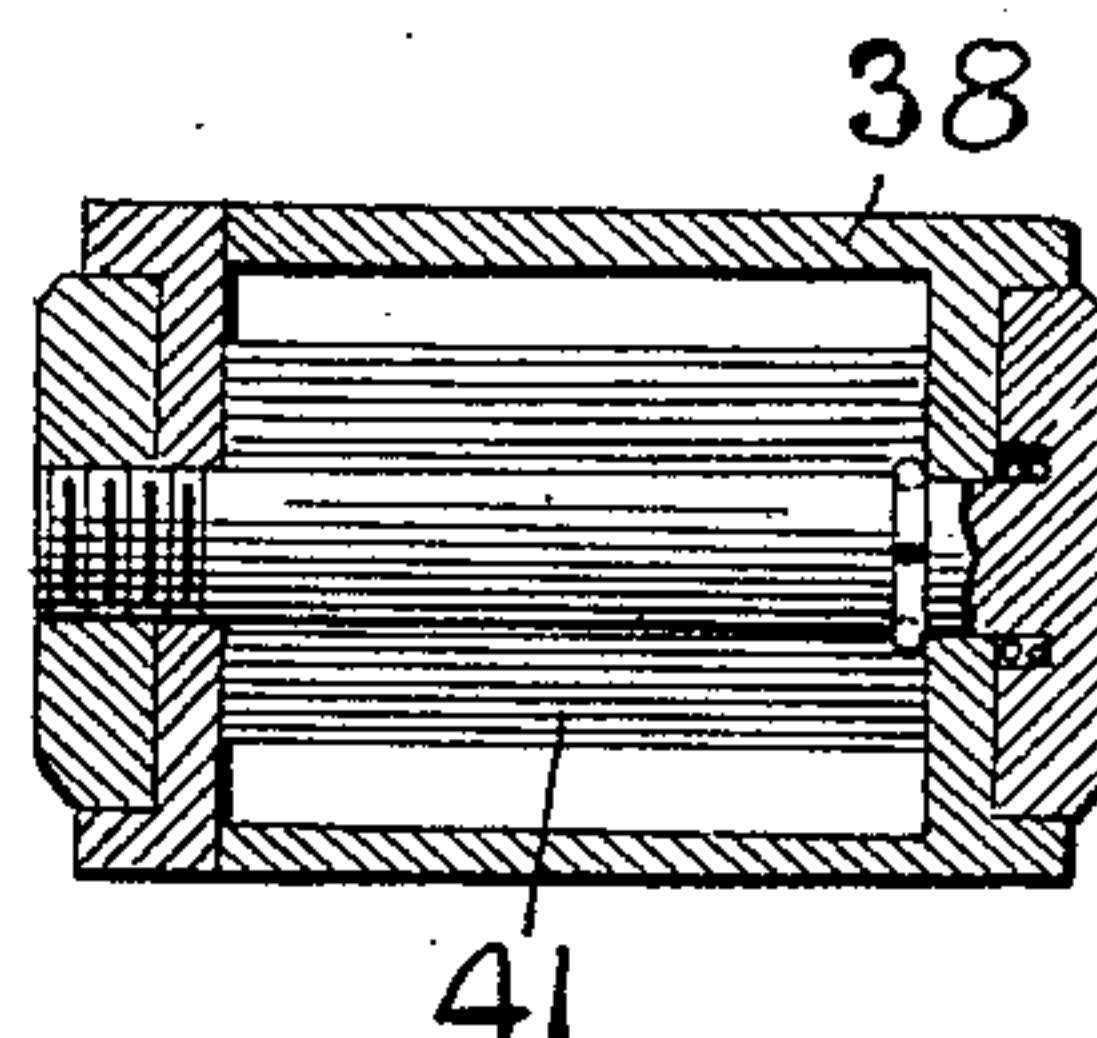


FIG. 8.



ATTEST

M. P. Smith
Edw. W. Harrington

INVENTOR:

Willis L. Lee.
BY *Higdon & Fugan.*
ATT'YS.

UNITED STATES PATENT OFFICE.

WILLIS L. LEE, OF ST. LOUIS, MISSOURI.

COMBINED PUNCH AND TIME-STAMP.

No. 808,994.

Specification of Letters Patent.

Patented Jan. 2, 1906.

Application filed May 1, 1905. Serial No. 258,418.

To all whom it may concern:

Be it known that I, WILLIS L. LEE, a citizen of the United States, and a resident of St. Louis, Missouri, have invented certain new and useful Improvements in a Combined Punch and Time-Stamp, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to a combined punch and time-stamp adapted for conductors' use on street-railways where the transfer system is employed.

The object of my invention is to construct a punch and time-stamp that will simplify and lessen the work of the conductor when issuing transfers.

A further object of my invention is to construct a simple compact punch and time-stamp that may be readily adjusted to the different periods of time at which the transfers are issued.

To the above purposes my invention consists in certain novel features of construction and arrangement of parts, that will be hereinafter shown, described, and claimed.

In the drawings, Figure 1 is a side elevation of a combined punch and stamp of my improved construction. Fig. 1^a illustrates a portion of a transfer that has been punched and stamped by my improved device. Fig. 2 is a vertical section taken longitudinally through the center of the forward portion of my improved punch and stamp. Fig. 3 is a vertical section taken approximately on the line 3 3 of Fig. 2. Fig. 4 is a side elevation of the form of my improved punch and stamp, wherein the printing-wheels are arranged transversely in one of the jaws. Fig. 5 is a view of a portion of a transfer punched and stamped with this form of my improved device. Fig. 6 is an enlarged vertical section taken longitudinally through the center of the forward end of this form of the punch. Fig. 7 is a vertical section taken approximately on the line 7 7 of Fig. 9. Fig. 8 is a transverse section taken on the line 8 8 of Fig. 6.

Referring by numerals to the accompanying drawings, 1 indicates the body or block of the upper jaw of the punch, the same being provided with a curved handle 2 and there being an opening 3 formed vertically through said block at the point where said handle joins therewith. Formed integral

with the top side of the handle 2 is a circular tape-housing 4, the opening thereof communicating with the opening 3 through the block 1. Formed integral with the upper end of the block 1 is a forwardly-projecting jaw 5, the outer end of which is bent vertically downward, as indicated by 6, directly in front of the body portion of the block 1. Situated in the lower end and outer portion of the downwardly-extending part 6 is a punch-pin 7. Formed through the upper portion of the block 1 from the opening 3 therein to the space beneath the jaw 5 is an aperture 8.

9 indicates a cylinder that is rigidly fixed to the front face of the block 1 by means of the screws 10, said cylinder projecting toward the part 6 and adapted to receive the printing-wheels of the time-stamp. Mounted upon the cylinder 9, next to the block 1, is a printing-wheel 11, which is in the form of a ring and having on its periphery the letters "N," "S," "E," and "W," these indicating the different directions, north, south, east, and west. This printing-wheel or ring is provided on its edge, adjacent the block 1, with a slightly-extended flange 12, that has a milled edge, and which is for the purpose of shifting the printing-wheel 11 upon the cylinder. Mounted upon the cylinder 9, next to the wheel 11, is a wheel 13, having on its periphery the characters "A. M." and "P. M." This wheel is provided with lugs 14, that are for the purpose of being engaged by the thumb or finger for rotating said wheel upon the cylinder 9. Immediately adjacent this wheel 13 is a third wheel 15, on the periphery of which are formed the printing characters "15," "30," and "45," these indicating the quarter-hours. This wheel 15 is also provided with lugs 16, similar to the lugs 14, and for the purpose of rotating said wheel 15 upon the cylinder 9. Adjacent this wheel 15 and upon the end of the cylinder 9 is a wheel 17, bearing the printing characters "1" to "12," inclusive, which are for the purpose of indicating the hours.

All of the printing-wheels just described are normally held from rotation by spring-pressed detents or fingers 17^a, that are located in transverse apertures 17^b, formed in the cylinder 9, the points of which detents engage in suitably-formed apertures 17^c in the inner faces of all of the printing-wheels. These apertures or notches are formed directly opposite all of the printing characters,

so that when the printing-wheels are adjusted to print a certain line said wheels will be held in proper alinement by the engagement of the points of the detents or fingers 17^a in said notches.

The lower jaw 18 of my improved punch and stamp is provided on its top side with a section 19, of rubber or analogous material, which forms a printing-surface against which the characters of the printing-wheels press in stamping a transfer, and formed in the outer end of said lower jaw is an aperture 20, through which the end of the pin 7 passes when the jaws are brought together. The lower jaw 18 is provided with an upwardly-projecting bifurcated shank 21, that passes through the opening 3 in the block 1, and a pin 22 passes through said block and through the shank 21, this pivoting two jaws or members of the punch and stamp together. Formed integral with the shank 21 is a curved handle 23, which is the counterpart of the handle 2, and formed integral with the under side of the handle 23 is a tape-housing 24 similar to the housing 4.

Suitable tape-spindles 25 are transversely arranged in the housings 4 and 24, which spindles are provided on their ends outside the housings with disks 26, having knurled surfaces and which are for the purpose of rotating the spindles 25. An ink-tape 27 is wound upon one of the tape-spindles 25 and passes from thence through the aperture 8 and from thence through a loop 28, fixed to the under side of the outer end of the jaw 5, from thence downwardly beneath all the printing-wheels, and finally through the lower portion of the bifurcated shank 21 and into the housing 4, where it is wound upon the opposite spindle 25.

In the modification shown in Figs. 4 to 8, inclusive, the upper jaw 38 of the punch and stamp is elongated, and the cylinder 39 is transversely arranged in the center thereof. The printing wheels or rings 40 similar to the ones previously described are mounted upon this cylinder 39, and the printing-tape 41 winds from a spindle in a housing on one side of the cylinder 39 to a spindle in a housing on the opposite side thereof. A section 42, of rubber or analogous material, is transversely arranged in the lower jaw of this form of the punch and receives the pressure of the characters on the printing-wheels when a transfer is being stamped. This form of the punch and stamp prints the time limit longitudinally upon the transfer-slip and punches along the edge thereof opposite the line for which the transfer is issued, as seen in Fig. 5.

In the use of the preferred form of my im-

proved punch and stamp the conductor, after shifting the various wheels so as to bring the printing characters thereon into proper alinement to print the desired time limit upon the transfer, inserts the transfer in the space between the two jaws and with the one movement simultaneously punches and stamps said transfer, as seen in Fig. 1^a. The punch-mark is made through the printing indicating the line to which said transfer is issued, and the time limit and direction are printed immediately opposite the punch-mark. This combined punching and printing of the transfer saves a great deal of time and lessens the mistakes ordinarily incurred in issuing transfers, it only being necessary for the conductor to manipulate the direction wheel or ring 11 when each transfer is stamped, and it only being necessary to shift the quarter-hour wheel 15 every fifteen minutes.

A combined punch and stamp of my improved construction is very compact, can be readily manipulated, and possesses superior advantages in point of simplicity, durability, and general efficiency.

It will be readily understood that the printing characters on the printing-wheels may be changed from the ones shown and described and any suitable characters placed on said wheels to suit the nature of the transfers or tickets that are being punched and stamped.

I claim—

1. In a combined punch and time-stamp, a pair of jaws pivotally held together, handles for said jaws, a tape-housing integral with each handle, a series of printing-wheels carried by one of the jaws, an impression-pad carried by the opposite jaw, and an inking-tape extending from one housing around the printing-wheels and into the opposite housing, substantially as specified.

2. In a combined punch and time-stamp, a pair of jaws pivotally held together, handles formed integral with said jaws, tape-housing formed integral with said handles, tape-spindles in each of said housings, a series of printing-wheels carried by one of the jaws, an impression-pad carried by the opposite jaw, and a tape wound upon one of the spindles and passing around all of the printing-wheels, and being wound upon the opposite spindle, substantially as specified.

In testimony whereof I have signed my name to this specification in presence of two subscribing witnesses.

WILLIS L. LEE.

Witnesses:

M. P. SMITH,

EDW. M. HARRINGTON.