B. M. SHANKLIN.

TRANSFER PUNCHING DEVICE.

APPLICATION FILED APR. 21, 1914.

1,127,814.

Patented Feb. 9, 1915.

2 SHEETS—SHEET 1.

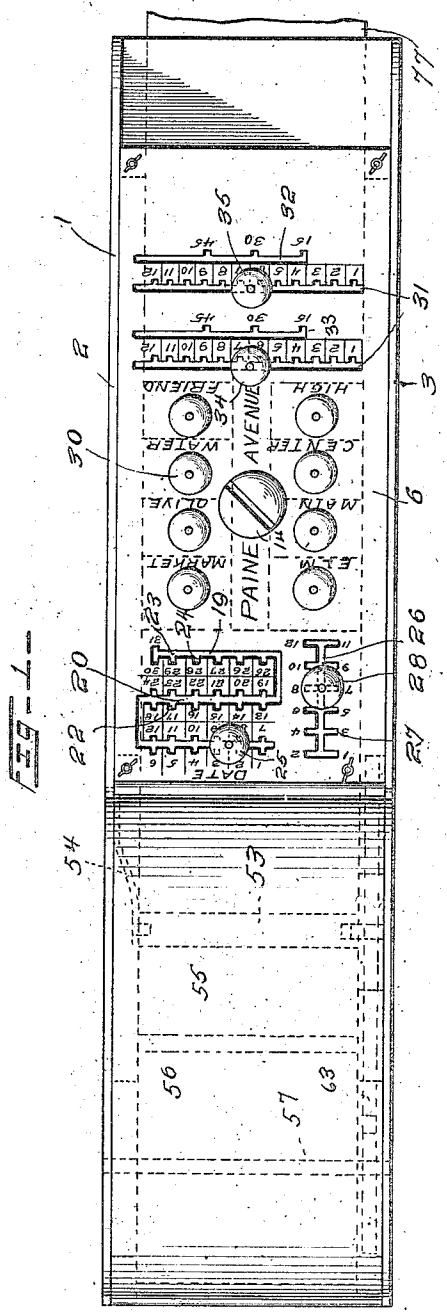


FIG. 1.

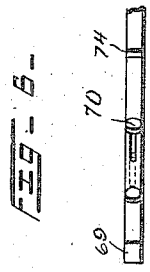


FIG. 2.

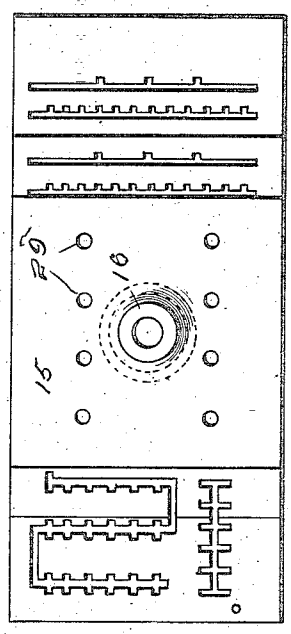


FIG. 3.

Witnesses

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2 SHEETS—SHEET 2.

FIG. 2.

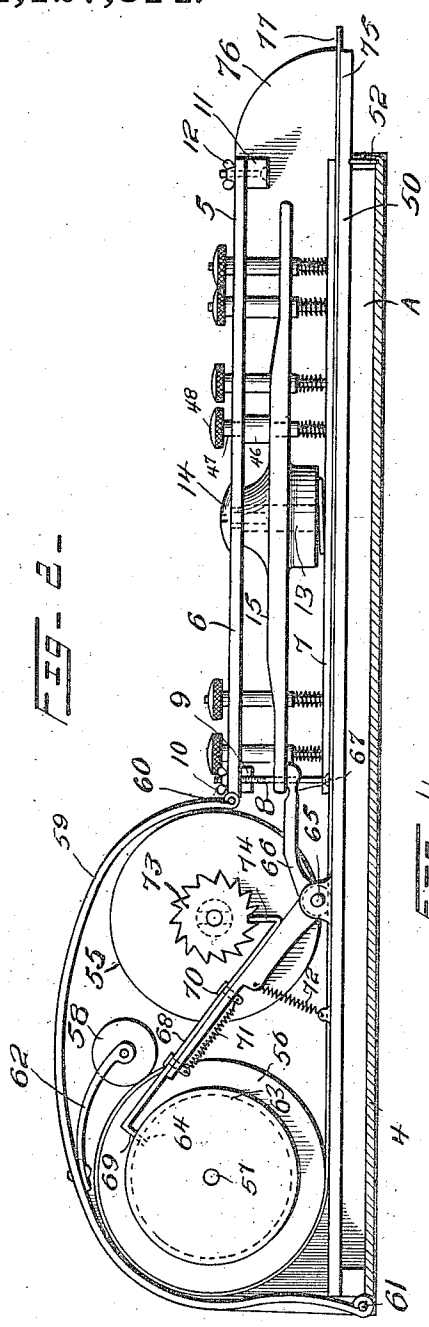


FIG. 4.

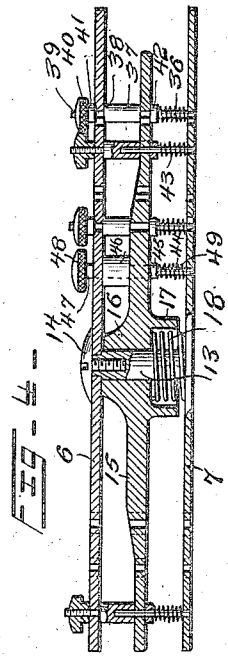
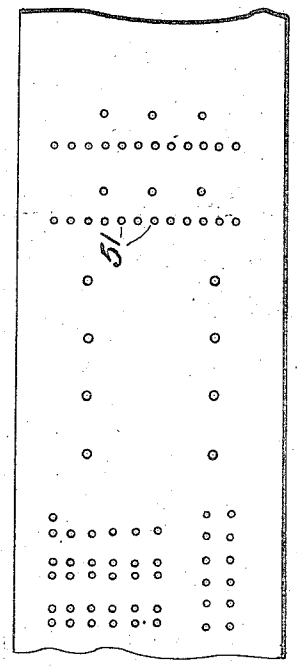


FIG. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

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TRANSFER-PUNCHING DEVICE.

1,127,814. Specification of Letters Patent. Patented Feb. 9, 1915.

Application filed April 21, 1914. Serial No. 833,547.

To all whom it may concern:

Be it known that I, BENJAMIN M. SHANKLIN, a subject of the King of Great Britain, residing at Springfield, in the county of Hampden and State of Massachusetts, have invented certain new and useful Improvements in Transfer-Punching Devices, of which the following is a specification.

My invention relates to new and useful improvements in punching devices for transfers and resides in the provision of a transfer punch which is arranged to contain a roll of transfers and which will operate to punch the date, month, time and transfer point designations on the transfer simultaneously.

An important object of my invention is to provide a device of the character described which will enable the punching of different transfer points upon the transfers and at the same time punch the month, date and time.

Another important object of my invention is to provide a transfer punching device of the character described which consists of a casing containing a roll of unpunched transfers and perforating or punching mechanism, said casing being arranged to permit the placing of new rows of transfers in a reliable and expeditious manner.

Another important object of my invention is to provide novel means whereby one transfer will be moved into position for punching and held in such position until the punching operation is had at which time the operator may remove the transfer from the device and in so doing positions another transfer for punching operation and in a position for removal.

Still another important object of my invention is to provide a novel form of locking means whereby one transfer at a time is permitted to be removed from the device.

Another important object of my invention is to provide a measuring roller which coöperates with the locking mechanism in enabling the positioning of the transfer for punching.

Another important object of my invention is to provide a device of the character described which consists of the novel form of punches comprising a plurality of punches for punching the month, date, time and transfer point designations on the transfers, all of said punches being operated by the depression of a single transfer-point punch.

Another important object of my invention is to provide a device of the character described which employs novel means whereby all of the punches are brought into operation by the depression of one of the transfer point designation punches.

A still further object of my invention is to provide a plurality of punches certain of which being adjustable to permit the desired punching of the transfer.

A still further object of my invention is to provide a device of the character described which is simple as to construction, may be constructed so as to take up little room, and which is cheap to manufacture.

The above and additional objects are accomplished by such means as are illustrated in the accompanying drawings, described in the following specification and then more particularly pointed out in the claims which are appended hereto and form a part of this application.

With reference to the drawings, wherein I have illustrated the preferred embodiment of my invention as it is reduced to practice, and throughout the several views of which similar reference numerals designate corresponding parts: Figure 1 is a top plan view showing my device as it would appear when in assembled position, Fig. 2 is a longitudinal sectional view taken through the casing and showing the operating mechanism in side elevation, Fig. 3 is a top plan view of the top punch supporting plate, Fig. 4 is a vertical longitudinal sectional view taken through the punching mechanism, Fig. 5 is a fragmentary top plan view of a portion of the extreme bottom plate that coöperates with the several punches, and Fig. 6 is a detail plan of a portion of the locking mechanism.

Referring to the drawings, the numeral 1 designates as an entirety an approximately rectangular casing comprising side walls 2 and 3 and a bottom wall 4.

Mounted between the side walls 2 and 3 adjacent to one end thereof is punching mechanism designated 5 as an entirety. This punching mechanism consists of two rectangular plates 6 and 7 that are secured in spaced relation to each other by means of bolts 8 arranged adjacent certain of their ends. The bolts 8 are inserted through the plates 6 and 7 and lateral apertured lugs 9 carried upon the inner faces of the side walls 2 and 3 and have wing nuts 10 turned

upon their upper extended terminals. The wing nuts 10 are positioned upon the outer or upper face of the plate 6. The lugs 9 extend laterally from the walls 2 and 3 and engage the under face of the plate 6 adjacent to the inner end thereof. The forward end of the plate 6 is supported upon lugs 11 similar to the ones 9 that are carried upon the side walls 2 and 3. A bolt and nut connection 12 for the lugs 11 and plate 6 is provided.

Inserted centrally through the plates 6 and 7 is a vertical pin or shaft 13. This pin or shaft may be formed integral or carried otherwise by the plate 7 but is secured to the plate 6 by a suitable screw 14. Mounted for sliding movement upon the pin or shaft 13 is a sliding plate 15 somewhat similar in construction with relation to the plates 6 and 7. This plate 15 is provided with an enlarged central bearing portion 16 which extends upwardly from the upper side thereof in the form of a boss and engages the under or inner face of the plate 6. An annular flange 17 is formed on the under face of the plate 15 and provides a chamber or compartment to receive an expansive spring 18. The spring 18 is mounted upon the pin or shaft 13 and at its terminals engages the plates 15 and 7. This spring serves to normally hold the plate 15 in uppermost position upon the shaft 13. The plates 6, 7 and 15 are provided with suitable slots and openings to receive the punches to be later described. Adjacent to the inner ends of the plates 6, 7 and 15 upon one side thereof are formed approximately S-shaped slots 19. The parallel portions 20 and 21 of each slot are provided with spaced transverse slots 22 while the other parallel portions 23 of each of the slots 19 are provided with right angularly extending slots 24 which are disposed toward the portions 20. These slots 19 are arranged to receive a date punch designated 25 as an entirety. Upon the opposite sides of the plates relative to the slots 19 at the inner ends of the plates are formed longitudinal slots 26. Each of these longitudinal slots is bisected by a plurality of transverse slots 27. The slots 26 and 27 are designed to receive a month punch designated 28 as an entirety. Upon each side of the center of the plates are rows of circular openings 29, the rows being arranged longitudinally with respect to the plate, and each opening or aperture has mounted therein a transverse punch designated 30 as an entirety.

Adjacent to the outer end of each of the plates 6, 7 and 15 I provide a pair of longitudinal slots 31. The slots 31 are arranged in spaced relation to each other and extend transversely with relation to the plates. I also provide adjacent to the slots 31 of each pair a shorter slot 32 disposed in the same plane as the slots 31 and slightly spaced with relation thereto. The slots 31 and 32 are provided with a plurality of spaced right angularly extending slots 33. The slots 31, 32 and 33 are arranged to receive the A. M. and P. M. time punches designated 34 and 35 respectively. The outer face of the plate 6 is provided with the names of the transfer points as clearly seen with reference to Fig. 1 in the drawings adjacent to the openings 29. The other necessary characters with relation to the time, date and month are positioned adjacent to the ends of the shorter slots that are formed in combination with the longer slots.

The punches for the month, date and time consisting of the punches designated 25, 28, 34 and 35 are similar as to construction. Each of these punches consists of a punch rod 36 that is positioned with its punching edge in the slots described in the plate 7. The punch rods 36 extend through the plate 15 and are each positioned within a tubular holder 37. Each of the holders 37 is provided at its upper end with a shoulder 38 to engage the under face of the plate 6 and a reduced stem 39 that extends through the slots in the plate 6. A knurled knob or finger piece 40 is mounted upon the stem 39. The stem 39 is preferably screw threaded. Each of the caps or knobs 40 is provided with a cylindrical body portion 41 arranged to engage the upper or outer face of the plate 6 upon either side of the slot. The lower edges of the holders 37 engage the upper face of the plate 15. The punch rods 36 are slidable within the holders 37. A collar 42 is fixed upon each rod 36 and engages the under face of the plate 15. A spring 43 of the expansion helical type is mounted upon each punch rod 36 and engages at its terminals the under face of the collar 42 and inner face of the plate 7. The springs 43 serve to normally hold the punch rods 36 in inoperative or uppermost position.

It will be readily seen with reference to the foregoing description and accompanying drawings that when the plate 15 is depressed the punch rods 36 will be moved or extended through the slots in the bottom plate 7 against the action of the springs 43 and 18. The plate 15 engages the collars 42 on the punch rods 36 and thus moves the punch rods downwardly. The springs 18 and 43 serve to return the punch rods and plate 15 to normal position.

The transfer point punches 30, each consist of a punch rod 44 that is carried by the reduced portion 45 of a holder 46. The portion 46 being considerably larger than the aperture or opening in the plate 15 through which the portion 45 is extended. A reduced extension portion 47 is carried

upon the upper side of each of the holders 46 and extends through the openings 29 in the plate 6. A finger piece or knob 48 is carried upon each of these portions 47. Springs 49 are mounted upon the punch rods 44 and are similar to the ones 43. It will be readily seen that when any of the transfer point punches 30 are depressed the holder 46 engaging the upper surface of the plate 15 forces the plate downwardly and by so doing operates the other punches described. The downward movement of the transfer point punches 30 provides for the punching operation of the punch rods 44.

It will be readily seen that the operation of all the punches is had upon the depressing of any one of the transfer point punches 30. The several springs used in connection with the plate 15 and punches serve to return the plate and punches to their normal position. This point is considered one of the most essential of my invention.

A rectangular plate 50 having a plurality of openings 51 therein is carried by the bottom plate 4 of the casing 1 in parallel spaced relation thereto and form a compartment A which is designed to receive the paper punchings. The forward end of this compartment A is open and is adapted to be closed by a suitable slide or door designated 52. The perforations or openings 51 in the plate 50 are formed in such a way so to receive the punching ends of the punch rods 36 and 44. It will be readily seen with reference to Fig. 2 in the drawings that the bottom plate 7 is spaced from the plate 50 throughout the entire length of the plate 7. This provides for the disposal of the transfer so that the transfer may be punched as will be later more fully described. The side walls 2 and 3 are enlarged at their rear and have mounted therebetween a transfer roll receiving drum or roller 53.

A leaf spring 54 is secured to the side wall 2 and adjacent end of the drum or roller 53. This spring serves to hold the roller with the transfer roll thereon in the proper position. A transfer roll 55 is mounted upon the drum or roller 53 and adapted to be wound therefrom over a measuring roller 56 which is mounted upon a shaft 57 that is journaled at its ends in the walls 2 and 3 rearwardly with respect to the drum or roller 53. The transfer roll is taken from the under side of the roll 55 and arranged upwardly over and around the measuring roll 56. The measuring roll 56 of the transfer roll is extended along the upper face of the plate 50 and between the plate 50 and under face of the plate 7.

A bearing roller 58 is positioned above the center of the measuring roller 57 and adapted to engage the transfer roll as the transfer roll passes over the measuring roll 56. The bearing roller 57, 58 and measuring roll 56 are formed preferably of some yielding material such as rubber and operate to prevent the transfer paper from slipping. A curved plate or cover 59 which is hinged at its ends as at 60 and 61 to the inner edge of the plate 6 and rear edge of the bottom plate 4 respectively forms in combination with the enlarged sides of the plates 2 and 3 a casing housing the drum 53, measuring roll 56 and coöperating parts. A suitable spring supporting arm 62 is secured at its ends to the trunnions of the roller 58 and to the inner face of the cover or lid 59. This spring member 62 serves to hold the roller 58 in bearing engagement with the transfer paper and to force the paper into firm engagement with the measuring roll 56.

As a means for measuring the proper length of the transfer and locking the same whereby the transfer length will be disposed in a position whereby it may be punched, I provide a measuring disk 63 that is fixed upon the roll 56 at one end thereof. A notch or recess 64 is formed in the periphery of the disk 63. The disk 63 is circular and arranged to turn with the roller 56. Pivoted as at 65 upon the plate 50 is a bell lever 66 having one end 67 disposed in a position whereby it will be engaged by the inner edge of the plate 15 when the plate 15 is depressed. The other end or arm of the bell lever 66 is extended toward the circular measuring disk 63 and has mounted thereon a slidable locking plate 68. This locking plate is provided at its outer end with a right angular locking lug 69 arranged to fit within the notch or recess 64 in the periphery of the disk 63. A pin and slot connection designated as an entirety by the numeral 70 slidably connects the bell lever 66 with the locking plate 68. A retractile spring 71 is secured to the ends of the pins of the connection designated 70 as an entirety and serves to normally hold the outer end of the latch plate 68 in a position whereby the lug 69 will be out of engagement with the recess 64. A retractile spring 72 is secured at its ends to the plate 50 and intermediate portion of the rear arm of the lever 66. This spring serves to hold the lug 17 in a position whereby the lug 69 will engage the recess 64 upon the rotation of the disk 63. A toothed wheel 73 is carried upon one end of the drum roller 53 and is disposed adjacent to the bell lever 66. This toothed wheel 73 is fixed for rotation with the drum 53. An angularly disposed lug 74 is formed on the inner end of the plate 68 and is adapted to engage the teeth on the wheel 73 and hold the drum 53 against rotation. The lug 74 locks as described with the wheel 73 when the latch

plate 68 is caused to slide upon the bell lever 66. The latch plate 68 is slidably moved upon the lever 66 when the lug 69 engages and fits within the recess 64 and as the disk 63 is rotated the latch plate is pulled outwardly causing the lug 74 to lockingly engage the teeth. When the latch plate 68 is pulled outwardly with relation to the bell lever 66 the tension of the spring 71 is exerted thus when the plate 15 is depressed and forces downwardly the terminals 67 of the bell lever 66, the lug 69 is moved out of engagement with the recess 64 and the spring 71 serves to move the latch plate 68 inwardly with relation to the bell lever 66 and in such a way that the lug 74 is moved out of engagement with the teeth on the wheel 73. The teeth on the wheel 73 are arranged to permit the operation described.

It will be readily seen with reference to the foregoing description and accompanying drawings that when the punching operation is brought about the locking mechanism is unlocked and the operator is permitted to pull another transfer into punching position.

The roll containing the transfers is preferably provided with transverse perforations dividing each printed and unpunched transfer. The transfers are arranged so that the outer end of the one to be punched is positioned outwardly with respect to the device sufficiently to enable the operator to grasp the free end and remove the transfer after the same has been punched.

The plate 50 is extended beyond the plate or wall 4 as at 75. The outer end of the plates 6 and 7 are approximately in the same position as the outer end of the wall 4. The side walls 2 and 3 are extended as at 76 and form in combination with the extended portion of 75 of the plate 50 a compartment wherein is disposed the outer end of the transfer to be punched and in this connection designated 77. When the transfer has been punched the operator grasps the portion 77 and pulls the transfer outwardly until the entire transfer is adjacent to the outer edge of the extension 75. The transfer may then be torn from the roll of transfers and another transfer is positioned for operation by such action.

In operation the operator may set the month punch 28 as desired by moving the punch into any of the slots 27 and then screwing down the knob 40. The month punch is then in a position for operation. The same positioning of the punches 25, 34, and 35 is had with relation to the date and time to be punched on the transfer. This arrangement is all set so that the operator upon the depressing of any of the transfer point punches 30 will bring about the operation of the other punches as previously described. The length of the transfer is measured by the circumference of the roller 56 and as the transfer is moved into position for punching it is locked until the punching operation is had at which time the operator may withdraw the transfer, tear the same from the roll and in so doing positions another transfer portion of the roll for punching operation.

It will be readily seen with reference to the foregoing description and accompanying drawings that a large number of transfers may be issued in a comparatively short time inasmuch as the conductor has only to punch the designation for transfer point punches and tear the transfer from the roll after pulling it out of the device.

The adjustment of the other punches is necessary but a few times during the day.

In positioning the paper of the transfer roll the thumb screws 10 and 12 are removed permitting the bottom wall 4 and plate 50 to be let down, the same being free with relation to the side walls 2 and 3, or the plates 6, 7 and 15 which are connected with each other and hinged to the cover 59 as at 60 may be swung up allowing the operator to properly position the free end of the transfer roll. The hinge pin at the hinge 60 may be removed and the perforating mechanism as a unit consisting of the plates 6, 7 and 15 and coöperating parts may be removed.

It will be readily seen with reference to the foregoing description and accompanying drawings that I have provided a simple and inexpensive device which will save a great deal of time and labor in issuing transfers and enable a more efficient handling of street cars in general.

In reduction to practice, I have found that the form of my invention, illustrated in the drawings and referred to in the above description, as the preferred embodiment, is the most efficient and practical; yet realizing that the conditions concurrent with the adoption of my device will necessarily vary, I desire to emphasize the fact that various minor changes in details of construction, proportion and arrangement of parts may be resorted to, when required, without sacrificing any of the advantages of my invention, as defined in the appended claims.

What is claimed is:—

1. A transfer punching device comprising a plurality of sets of punching members and means for operating one set of punching members simultaneously with and by the operation of one selected punching member of the other set.

2. In a transfer punching device a plurality of punching members and means for operating all of certain of the punching members simultaneously with the selective operation of any one of the other of said punching members.

3. In a transfer punching device, a casing, a plurality of slidable punching members mounted in said casing, a roll of transfers mounted within said casing, said punching members being arranged to punch the month, day, and time on a transfer of said roll, a plurality of transfer point punches, and means to operate the month, day and time punches simultaneously upon the manual operation of a selected transfer point punch.

4. A transfer punching device comprising a casing, a plurality of punching members mounted within said casing, a plurality of unpunched transfers mounted within said casing, means for holding the supply of transfers against being removed from the device other than one at a time acting to lock the supply so that one of the transfers cannot be removed therefrom when a transfer has been drawn into position to be punched and means operatively associated with the punching and said last named means to release said last named means to enable a transfer to be withdrawn from the supply when the punches are operated.

5. In a transfer punching device a plurality of punches, a roll of unpunched transfers, means for holding the roll of transfers against rotation when one of the transfers of said roll has been positioned for punching, means to operate said last named means being arranged to rotate with said transfer roll and means to release said holding means automatically when the punches are operated to allow transfers to be withdrawn from the roll.

6. A transfer punching device comprising a casing, a pair of plates mounted within said casing, a roll of unpunched transfers mounted within said casing, one of said plates being spaced from said casing to permit the positioning of a portion of the transfer roll between said spaced plate and the casing, a plurality of punching members mounted on said plates, means for locking a roll of transfers against rotation after one of the transfers of the roll has been positioned for punching operating automatically when the roll of transfers have rotated a predetermined distance and means for operating all or certain of the punches upon the operation of any selected one of the other punches, said last named means releasing said holding means and permitting a transfer to be removed from the casing upon the operation of the punches, and means for operating all of certain of the punches upon the operation of any one of the other of the punches, said last named means releasing said transfer holding means and permitting the transfer to be removed from said casing.

7. In a transfer punching device, a casing, a roll of unpunched transfers rotatably mounted within said casing, a measuring roll mounted within said casing, adjacent to said transfer roll and having a portion of the roll of transfers mounted to frictionally engage and rotate said measuring roll, punching members mounted within said casing, means operating in conjunction with said measuring roll to hold each transfer of the roll in a position whereby it may be punched, operating to lock the transfer and measuring roll against rotation, after a certain degree of rotation is imparted both rolls and means for releasing said holding means upon the operation of said punching members whereby the transfer that is punched may be removed and another unpunched transfer is positioned for punching.

8. In a transfer punching device, a casing, a plurality of transfers mounted within said casing, adjustable month, day and time punching members mounted within said casing, a plurality of transfer point punching members mounted within said casing and means for automatically operating the month, day and time punches upon the manual operation of any selected one of the plurality of transfer point punches.

9. In a transfer punching device, a pair of spaced stationary plates, a slidable plate mounted between said first named plate, each of said plates being provided with a plurality of slots and apertures, month, day and time punching members adjustably mounted within the slots in each of said plates, a plurality of transfer point punching members mounted within the apertures in said plates, means mounted on each punching member of the day, month and time punching members and engaging the slidable plate whereby the month, day and time punching members move with the downward sliding movement of said sliding plate, and means to operate the slidable plate carried by each of said transfer point punches whereby the plate is caused to slide when any one of the transfer punches is operated and the simultaneous operation of the month, day and time punches is brought about.

10. In a transfer punching device, a pair of spaced plates, a second plate slidably mounted between the spaced plates, a third plate slidably mounted between the second and first plates, a spring for normally holding said plates in inoperative position, said third plate in an inoperative position, adjustable day, month and time punching members mounted in said plates, a plurality of transfer point punches mounted within said plates and means whereby the month, day and time punches are operated simultaneously with the operation of any one of the plurality of the transfer point punches.

11. In a transfer punching device, a casing, a pair of spaced plates mounted with-

in said casing, a third plate slidably mounted between the spaced plates, a plurality of punching members mounted with each of said plates, a plurality of transfers mounted within said casing, means for holding said transfers against withdrawal from said casing and in a position whereby they may be punched, means for releasing said holding means at the time of the punching of the transfer and means whereby all of certain of said punches are operated upon the operation of any one of the other of said punch members.

12. In a transfer punching device, a casing, a roll of unpunched transfers mounted within said casing, a toothed wheel operatively connected with said roll and arranged to rotate therewith, a measuring roller rotatably mounted within said casing and having a portion of the roll of transfers mounted thereon and arranged to rotate said measuring roll, a disk having a notch formed in its periphery fixed upon one end of said measuring roll, a bell lever pivoted within said casing, a locking plate slidable upon said bell lever, said locking plate having angularly disposed terminals arranged to coöperate with the toothed wheel and notch in said disk, means for normally holding one end of said locking plate in engagement with the periphery of said disk, spring means for automatically moving the terminals of said locking plate out of engagement with the toothed wheel and notch in said disk upon the movement of said bell lever to move the locking plate out of locking engagement with the notch in said disk, punching members mounted within said casing and means operatively connected with said punching members to move one terminal of said locking plate out of locking engagement with the recess in said disk simultaneously with the operation of the punching members.

13. In a transfer punching device, a casing, a roll of unpunched transfers rotatably mounted within said casing, punches mounted within the casing, and means to lock said transfer roll against rotation after said roll has been rotated a predetermined distance and sufficiently to enable the positioning of an unpunched transfer for punching.

14. In a transfer punching device, a casing, a roll of unpunched transfers rotatably mounted within said casing, punches mounted within the casing, means to lock said transfer roll against rotation after said roll has been rotated a predetermined distance and sufficiently to enable the positioning of an unpunched transfer for punching, consisting of a disk having a notch formed in its periphery and being rotatably mounted in said casing, means to rotate said disk at the same rate of speed as does the transfer roll, a bell lever pivoted within said casing, a locking plate slidably mounted upon one end of said bell lever, a toothed roller carried by said transfer roll, means to normally and yieldingly hold one end of said locking plate in engagement with the periphery of said disk, said locking plate having angularly bent terminals, means to hold one of the angularly bent terminals of the locking plate out of coöperation with said toothed wheel, the other of the angularly bent terminals being arranged to be engaged in the notch in the periphery of the disk whereby the locking plate is caused to slide upon the bell lever and one end thereof to engage the toothed wheel and hold the same against rotation, a plate slidably mounted within the casing and having the punches mounted thereon and to move downwardly upon the operation of the punches to engage said bell lever whereby one end of the locking plate is lifted out of engagement in the notch in the periphery of said disk.

15. In a transfer punching device, a casing, a roll of unpunched transfers rotatably mounted within said casing, punches mounted within the casing, means to lock said transfer roll against rotation after said roll has been rotated a predetermined distance and sufficiently to enable the positioning of an unpunched transfer for punching, consisting of a disk having a notch formed in its periphery and being rotatably mounted in said casing, means to rotate said disk at the same rate of speed as does the transfer roll, a bell lever pivoted within said casing, a locking plate slidably mounted upon one end of said bell lever, a toothed roller carried by said transfer roll, means to normally and yieldingly hold one end of said locking plate in engagement with the periphery of said disk, said locking plate having angularly bent terminals, means to hold one of the angularly bent terminals of the locking plate out of coöperation with said toothed wheel, the other of the angularly bent terminals being arranged to be engaged in the notch in the periphery of the disk whereby the locking plate is caused to slide upon the bell lever and one end thereof to engage the toothed wheel and hold the same against rotation, a plate slidably mounted within the casing and having the punches mounted thereon and to move downwardly upon the operation of the punches to engage said bell lever whereby one end of the locking plate is lifted out of engagement in the notch in the periphery of said disk, and spring means to hold said plate in up position normally.

16. In a transfer punching device, a casing, a pair of spaced plates mounted within the casing, a third plate slidably mounted between the pair of plates, all of said plates having alined slots and recesses therein, said slots having a plurality of right angularly extending notches communicating therewith

intermediate their ends, punching members mounted within the alined apertures of the plates, punching members having screw threaded upper ends mounted in the alined slots of the plates with their screw threaded ends disposed above the uppermost of the plate, said last named punching members being slidable in said slot and arranged to extend into the right angularly extending notches therein so as to be held against slidable movement, and locking members turned upon the screw threaded ends of the last named punching members and to be moved into engagement with the uppermost of the plate to lock said last named punching members in position.

In testimony whereof I affix my signature in presence of two witnesses.

BENJAMIN M. SHANKLIN.

Witnesses:

ANNIE E. SHANKLIN,

R. W. KYGER.