March 2, 1937. F. J. KUBALANZA 2,072,588

PRINTING PLATE HOLDER FOR ADDRESSING MACHINES

Filed Feb. 15, 1935 2 Sheets-Sheet 1

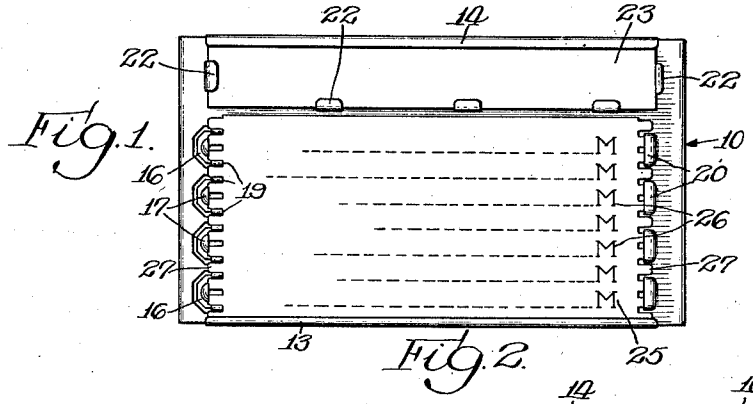



Fig. 1.

Fig. 2.

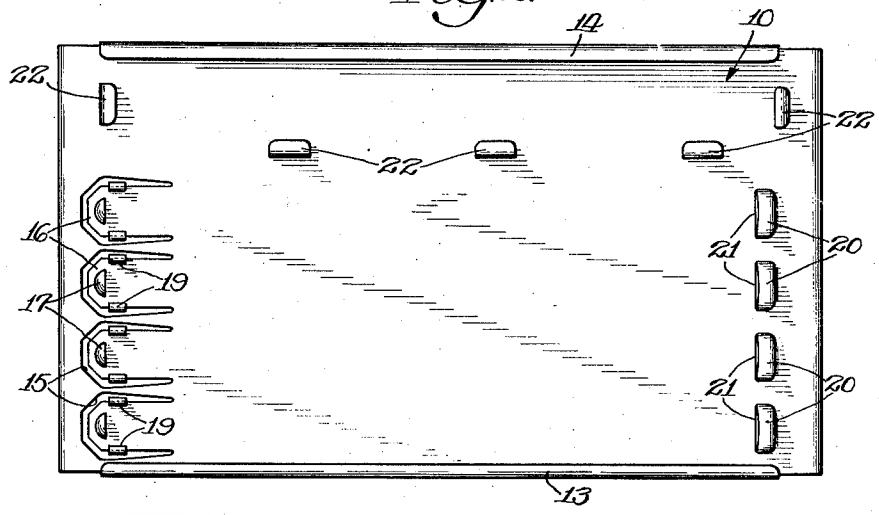
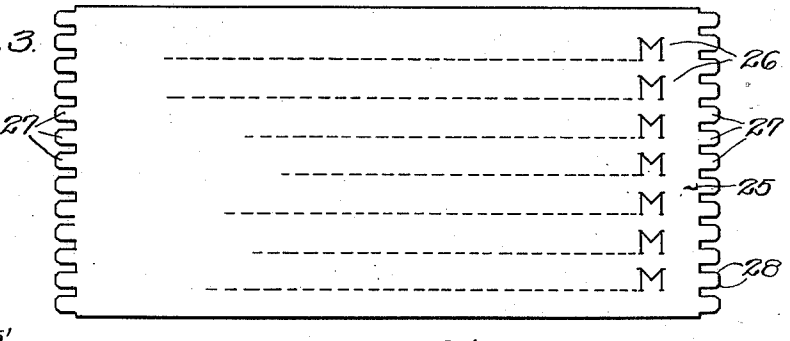



Fig. 3.



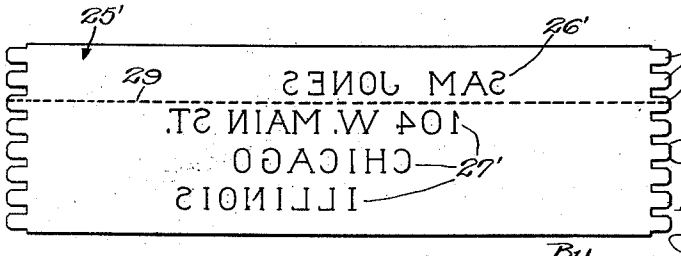




Fig. 4.

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March 2, 1937. F. J. KUBALANZA 2,072,588

PRINTING PLATE HOLDER FOR ADDRESSING MACHINES

Filed Feb. 15, 1935 2 Sheets-Sheet 2

Fig. 5.

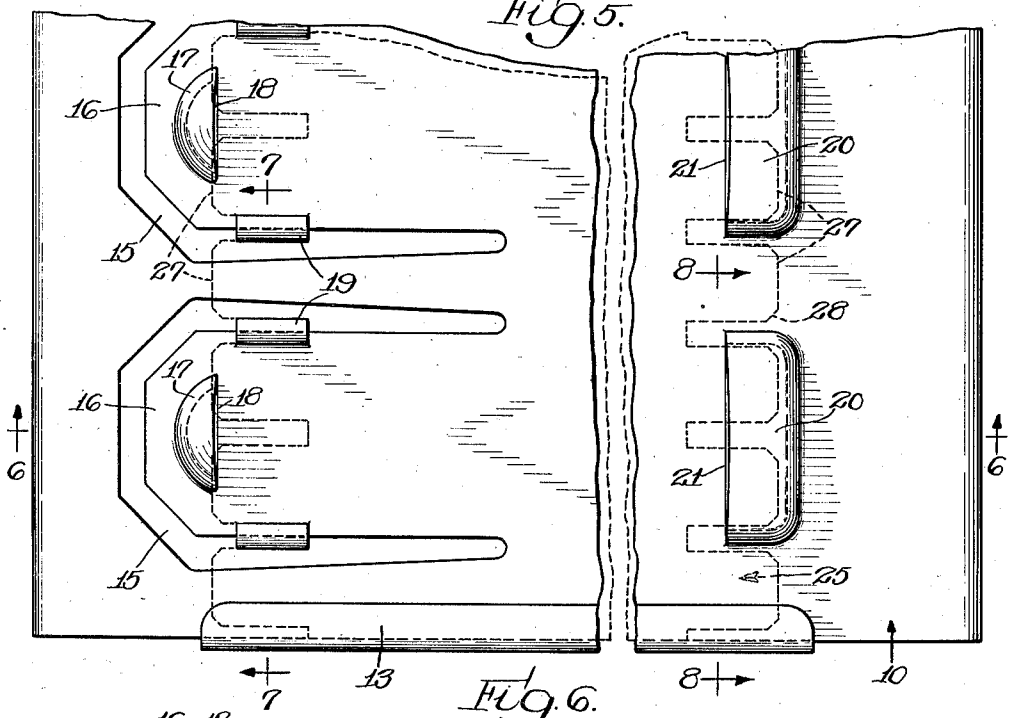



Fig. 6.

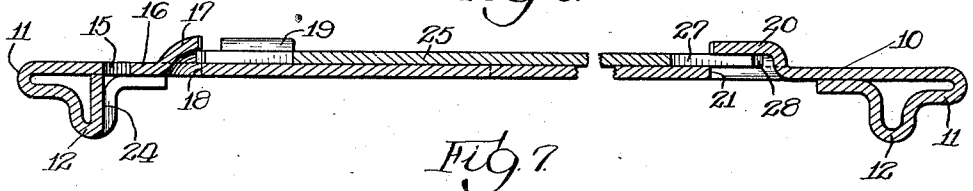



Fig. 7

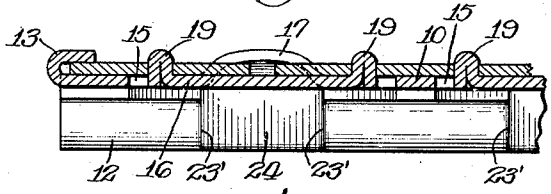
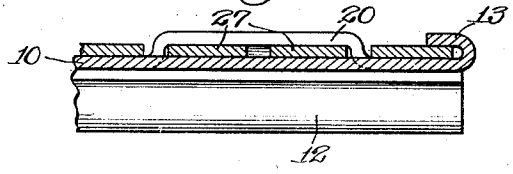



Fig. 8.

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# UNITED STATES PATENT OFFICE

2,072,588

## PRINTING PLATE HOLDER FOR ADDRESSING MACHINES

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Application February 15, 1935, Serial No. 6,619

5 Claims. (Cl. 101—369)

The present invention relates generally to addressing machines, but more particularly to printing plate holders therefor in which the same is constructed and simplified so that a single plate holder may detachably support therein printing plates of various widths carrying one or more lines of type.

It has been the practice heretofore to provide a different plate holder for printing plates of different widths so that if one, two, three or more lines of printing plate were required to be mounted in the conventional addressing machine, several different types of printing plate holders have been required to accommodate the various widths of printing plate, thereby entailing a considerable expense to the operator thereof in keeping on hand this variety of plate holders in order to support and hold printing plates of various widths.

It is therefore one of the primary objects of the present invention to not only overcome this difficulty, but to also provide a universal or standardized plate holder which is capable of supporting and detachably retaining therein printing plates of varying widths which may carry one, two or more lines of print thereon without the necessity of having a variety of plate holders, thereby reducing the number of plate holders heretofore required and simplifying the operation of removing and attaching these printing plates to the plate holders.

A further object of the invention is to provide a novel printing plate which is suitably scored or perforated longitudinally thereof between certain of the printing lines so that the printing plate carrying the name may be separated from the address of the individual so that a new address may be substituted therefor without the necessity of completely making up a new printing plate.

These and other objects are accomplished by providing a construction and an arrangement of the various parts in the manner hereinafter described and particularly pointed out in the appended claims.

Referring to the drawings:

Fig. 1 is a top plan view showing my improved printing plate holder with a relatively wide printing plate mounted thereon;

Fig. 2 is an enlarged top plan view of my improved plate holder;

Fig. 3 is an enlarged plan view of one of the relatively wide printing plates;

Fig. 4 is an enlarged plan view of a relatively narrower printing plate showing the same scores on the longitudinal line between the name of the individual and his address;

Fig. 5 is a greatly enlarged fragmentary view of a portion of the plate holder showing a printing plate in dotted lines and detachably secured to the plate holder;

Fig. 6 is a cross sectional view taken on the line 6—6 in Fig. 5;

Fig. 7 is a cross sectional view taken on the line 7—7 in Fig. 5; and

Fig. 8 is a cross sectional view taken on the line 8—8 in Fig. 5.

In connection with the use of addressing machines now used, it is necessary for the operator thereof to have in his possession a large number of plate holders of different types which will accommodate various widths of printing plates carrying one, two or more lines of print thereon, thereby entailing considerable expense to the operator thereof as well as considerable time in the selection of the proper plate holder to accommodate the printing plate of a certain width. With the present invention a universal or standardized plate holder is provided which is capable of supporting and retaining therein a printing plate of varying widths so that the same may contain one or more lines of type thereon and be supported on the plate holder in any selected position within certain limits on the holder.

In the preferred embodiment of my invention, I have shown the same as comprising a substantially flat metal plate holder, generally indicated by the reference character 10, the opposite ends of the plate holder 10 are folded back upon themselves on the bottom side thereof so as to form a longitudinally extending transverse bead 11 and a downwardly extending transverse rib 12. The opposite longitudinal edges of the plate holder 10 have upwardly extending and inwardly projecting flanges 13 and 14 for the purpose hereinafter set forth. Located adjacent one end of the plate holder 10 are a plurality of uniformly spaced apart and inwardly projecting U-shaped slots or cut-out portions 15 which form in effect, outwardly projecting spring-like tongues 16. On the upper surface adjacent the free ends of each of these tongues are upwardly raised semi-circular locks 17 which are formed by cutting the material as shown at 18 and pressing these locks upwardly with respect to the flat portion of each of the tongues. Formed on the opposite longitudinal edges of each of the tongues 16 are upwardly extending flanges 19 which are formed integrally with the tongue by bending the material upwardly at substantially right angles to

the surface of the tongue with the outer portions thereof folded back against the right angularly bent portion in the manner clearly indicated in Fig. 7 of the drawings. Arranged at regularly spaced apart intervals parallel and adjacent to the other end of the plate holder are upwardly dented lugs or enclosed pockets **20** which are formed from the material of the plate holder and cut or slotted as shown at **21** on their inner edges so as to form recesses, sockets or pockets for engaging certain portions of the printing plates hereinafter described. The plate holder **10** is provided with upwardly pressed flanges or hooks **22** adjacent the upper edge thereof which, together with the flange **14** forms a securing socket for a paper label **23** descriptive of the particular printing plate as clearly shown in Fig. 1 of the drawings. Vertically extending bead **12** extending across the bottom of the plate holder **10** adjacent the tongues **16** is vertically cut at intervals as shown at **23** so that the portion of this bead **12** adjacent the outer ends of each of the slots **15** as shown at **24** is depressed inwardly so as to be in alignment with the outer edges of each of the slots as clearly shown in Figs. 6 and 7 of the drawings.

My improved printing plate comprising a relatively flat piece of metal generally indicated by the reference character **25** and carries the usual name or address or printed matter indicated by the reference character **26** as clearly shown in Figs. 3 and 4 of the drawings. The printing plate shown in Fig. 3 of the drawings is one of the larger widths and is provided on its opposite edges with evenly spaced apart and outwardly projecting tongues **27** which preferably have their opposite corners beveled off at 45° as indicated at **28**. In Fig. 4 of the drawings, I have shown a relatively narrower printing plate **25'** which carries a name **26'** and an address **27'**. The opposite edges of this plate likewise are provided with the outwardly projecting tongues **27** of the same structure disclosed in Fig. 3 of the drawings. The printing plate **25'** is scored or perforated on the longitudinal line **29** which permits the plate to be broken along this line and separated so that a new address may be substituted for the removed address in the event such a change is required, thereby obviating the necessity for making up a complete new plate.

The operation of my improved printing plate holder is as follows:

Let us assume that the operator is desirous of mounting the print plate **25** on the plate holder **10**, the lower edge of the printing plate **25** is inserted beneath the flange **13** of the plate holder **10** and the tongues **27** of the plate **10** are slid in a direction of the slits or sockets **21** of the lugs **20** so that certain of these tongues as clearly shown in Figs. 1 and 5 of the drawings, become seated therein. It will be noted that the tongues **27** can only be removed in one direction from the sockets **20** when seated therein, thereby preventing longitudinal displacement of the plate from the plate holder. Then the other end of the printing plate is pressed downwardly so that the upwardly projecting flanges **19** of each of the tongues **16** extend into the slot or recesses between the tongues **27** on the other end of the plate. Upon further pressing these tongues **27** downwardly, the outer edges of certain of these tongues **27** will engage the inner edges of the upwardly curved lugs **17** of each of the tongues **16** so as to lock the printing plate **25** in position on the plate holder in the manner clearly illustrated in Figs. 1, 5, 6, 7 and 8 of the drawings. In this connection it will also be observed that a printer's plate of a width of one line to the full width of the plate shown in Fig. 3 may be easily and quickly mounted on the plate holder, thereby providing a universal or standardized plate holder which will accommodate a printing plate of different widths, or to put it in other words, will accommodate a printing plate containing one printed line or more than one printed line. In this connection it will also be noted that a narrow width plate may be selectively positioned with respect to the plate holder as the tongues of the plates may engage various positions with respect to the sockets **20** and locks **17** on the opposite ends of the plate holder.

From the above description it will be seen that I have provided a very simple, efficient and universal plate holder and one which will reduce the number of holders heretofore required in that the single plate holder will accommodate printing plates of varying sizes.

While in the above specification I have described one embodiment which my invention may assume in practice, it will of course, be understood that the same is capable of modification and that modification may be made without departing from the spirit and scope of the invention as expressed in the following claims.

What I claim is my invention and desire to secure by Letters Patent is:

1. The combination with a printing plate having a plurality of spaced apart tongues formed on the outer ends thereof, of a plate holder therefor comprising a frame, a plurality of equally spaced apart pockets formed adjacent one edge of said frame, said pockets having a slit in one side only so as to permit removal of the tongues therefrom in one direction only, a plurality of equally spaced apart tongues formed adjacent the other end of said frame, and locks carried on the free ends of said tongues for selectively and detachably securing the tongues of said plate.

2. The combination with a printing plate having a plurality of outwardly projecting spaced apart tongues formed on the opposite ends thereof, of a plate holder comprising a frame, a plurality of spaced apart enclosed pockets having slots cut on one side thereof, said pockets formed on one end of said frame and adapted to engage certain of the tongues on one end of said plate, and a plurality of spaced apart tongues located inwardly from the other end of said frame, and locks carried adjacent the free ends of said tongues and adapted to engage certain of the tongues on the other end of said plate.

3. The combination with a printing plate having a plurality of outwardly projecting spaced apart tongues formed on the opposite ends thereof, of a plate holder comprising a frame, a plurality of spaced apart enclosed pockets formed on one end of said frame and adapted to engage certain of the tongues on one end of said plate, said pockets having slits on one side to permit entrance and removal of the plate in one direction with respect thereto and a plurality of spaced apart spring tongues located at the other end of said frame and having recessed sockets formed therein for engaging certain of the tongues on the other end of said plate for detachably securing plates of various widths to said plate holder.

4. The combination with a printing plate having a plurality of outwardly projecting spaced apart tongues, of a plate holder therefor comprising a frame, enclosed pockets formed adjacent one end of said frame, said pockets having slits on one side thereof adapted to receive the tongues on one end of said plate for preventing their transverse displacement therefrom, and locking means on the other end of said frame for detachably securing the tongues on the other end of said plate to said plate holder.

5. The combination with a printing plate having a plurality of outwardly projecting spaced apart tongues formed on the opposite ends thereof, of a plate holder therefor comprising a frame, depressible spring tongues formed integrally with said frame, said last named tongue formed in said frame by cutting substantially U-shaped slots therearound, locking members carried by said tongues adjacent their free ends for engaging the tongues on said plate, and means for securing the other end of said plate to said frame.

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