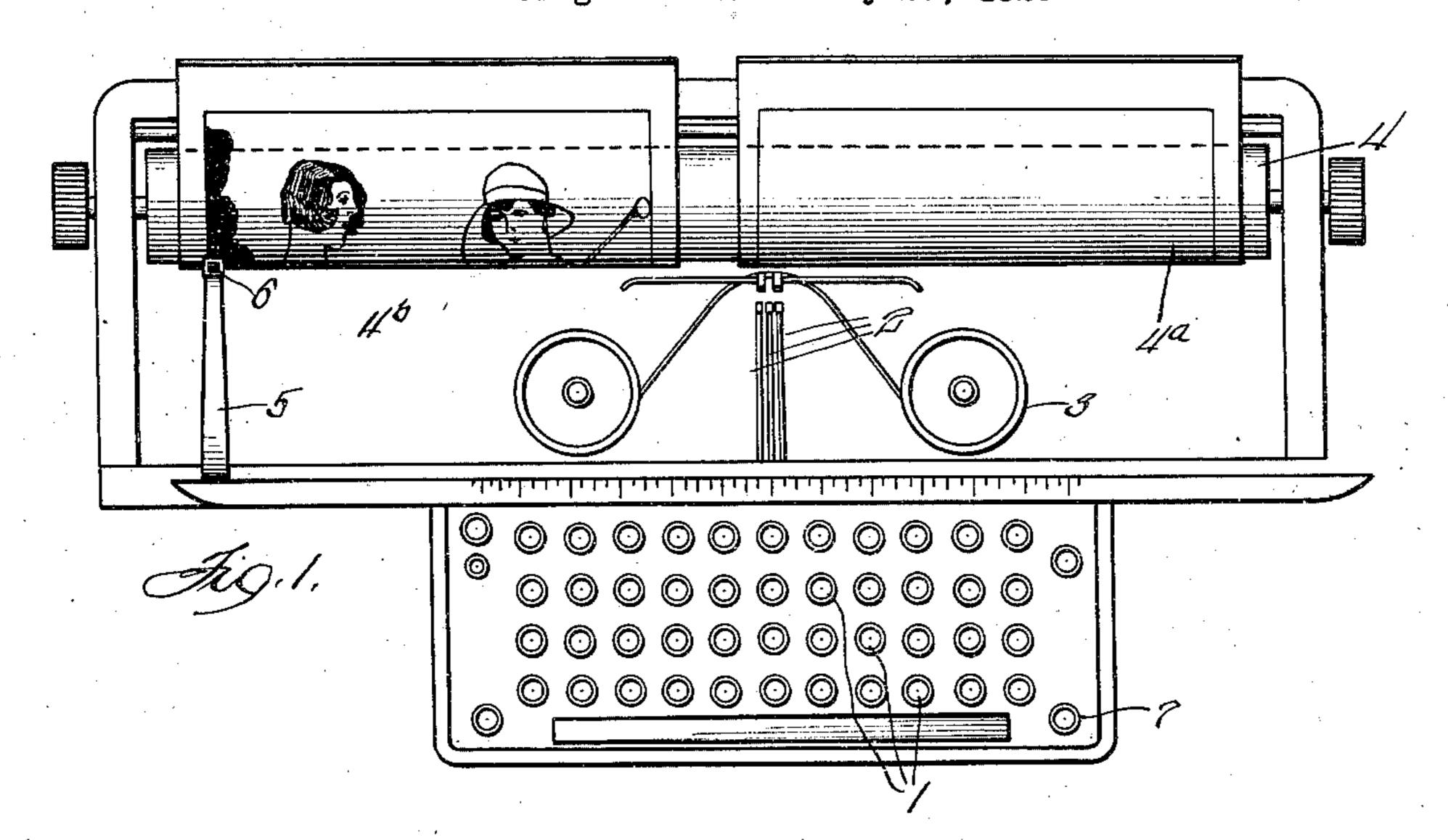
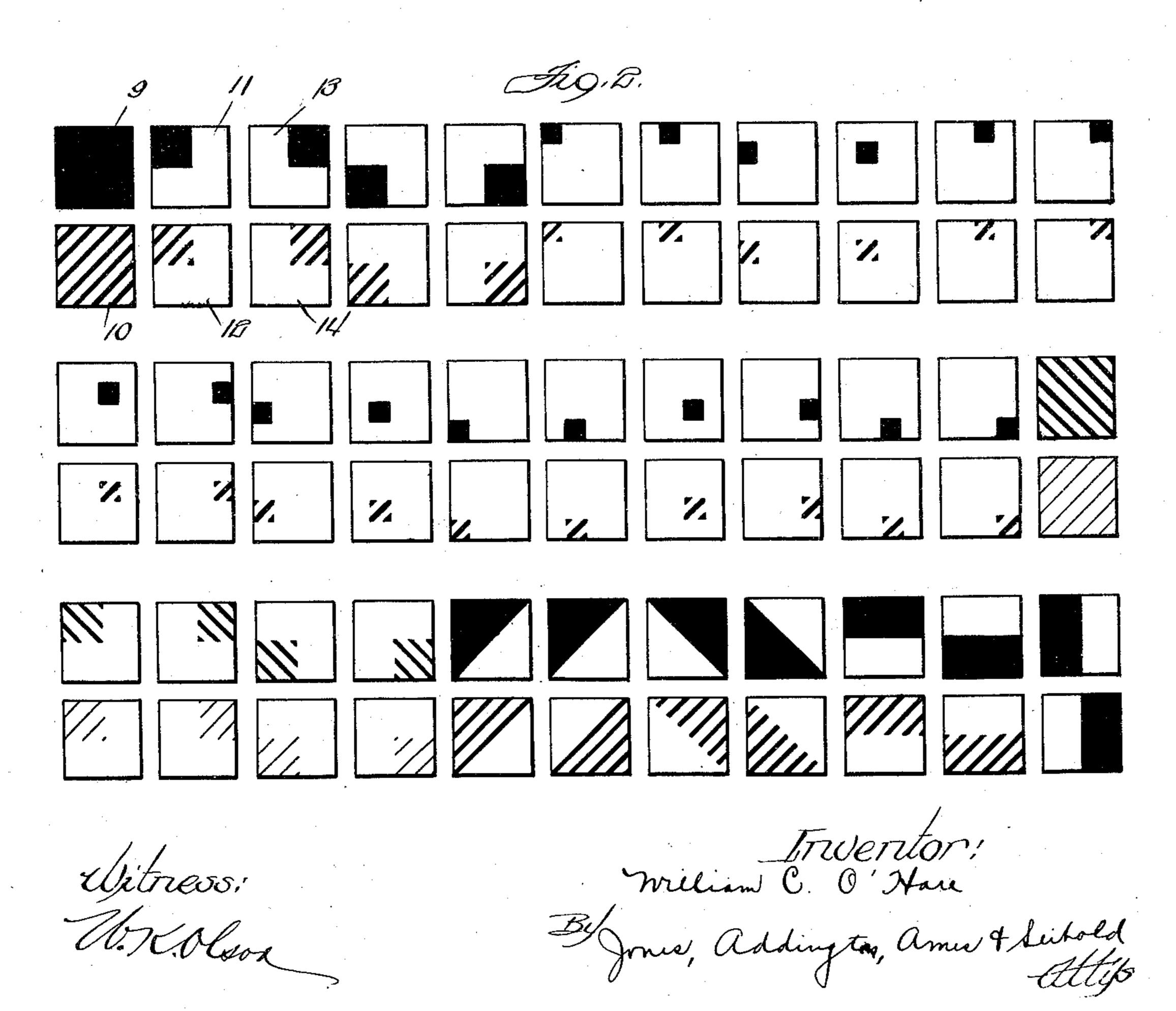
PICTURE COPYING MACHINE

Original Filed July 20, 1925





## UNITED STATES PATENT OFFICE

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## PICTURE-COPYING MACHINE

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machines.

5 chine having key controlled hammers or the shifts the work sheet and the copy sheet one- 55 lining successive contiguous portions of the eigth inch square. The squares numbered 9 10 operated.

scription and claims.

illustrated,

15 Figure 1 is a somewhat diagrammatic view of a picture making machine, showing the holder for the work sheet and the copy sheet and the means for outlining successive contiguous portions of the copy sheet.

Fig. 2 is a view showing a design for the No. 9 the entire square is covered solidly 70

found satisfactory.

Referring to the drawings in detail, and first particularly to Fig. 1, the construction 25 shown comprises a key-board having a plurality of manually operable keys 1 similar to ter is covered with diagonal lines. the arrangement of keys on a typewriter for 30 to the hammers of a typewriting machine, a the artist is guided by a study of that por- 80 35 ed, and a framing or outlining finger 5 having a rectangular sight opening 6 therethrough for framing successive contiguous portions of the copy sheet as the platen is automatically shifted longitudinally step by 40 step upon actuation of the keys.

The mechanism by which the movement of the platen is effected may be similar to the mechanism used in the typewriter construction and need not be described in detail.

Referring to the type faces of the color applying hammers shown in Fig. 2, each hammer 2 may be provided with two type faces as in typewriter construction either one

My invention relates to picture copying machine which I have designed, each operation of one of the keys shifts the platen one-One of the objects of my invention is to eighth of an inch laterally, and each step provide an improved picture copying ma- by step rotational movement of the platen like for applying color to the work sheet eight of an inch longitudinally. Each type and having provisions for automatically out-face is designed to take care of a space onecopy sheet as the color applying hammers are and 10 show the two type faces on one of the type hammers, the squares numbered 11 and 69 Further objects will appear from the de- 12 show the two type faces on another type hammer, the squares numbered 13 and 14 In the drawings in which my invention is show a pair of type faces on another type hammer, etc. It will be noted the only difference between the two type faces on the 85 same hammer is that on the upper one the coloring matter is applied in a solid block whereas in the lower one the coloring is applied in diagonal lines. In the type face type faces of the hammers which I have with coloring material. In type face No. 10 the entire square is covered with diagonal lines. In type face No. 11 the upper left hand quarter of the square is covered solidly and in type face No. 12 the upper left hand quar- 75

By proper selection of the keys, color can controlling the operation of the color ap- be applied to any desired portion of the work plying hammers 2 which also may be similar sheet. In selecting the type face to be used ribbon feeding mechanism 3 which may be of tion of the copy sheet which appears within any usual or suitable type, a rotatable longi- the sight opening of the outlining finger. A tudinally shiftable platen 4 on which the little practice soon enables the artist to dework sheet 4° and copy sheet 4° may be mount- termine which type face will give the desired

result.

The ribbon used may have various portions of its length formed of different colors so that by shifting the ribbon longitudinally any desired color may be brought opposite the type face so that any desired portion of 90 the work sheet can be covered with any desired color.

While I have shown a design for the type faces which I have found satisfactory, it is obvious that other type faces might be de- 95 vised which also might be satisfactory. For instance, it might be advisable to design a set which would reproduce accurately drawof which may be brought into operative po- ings done in charcoal. This can be done by sition by means of a shift key 7. In the slightly changing the type faces. Also, if 100

ing record made might be used for the code transmission of the picture by mail, wire, or radio and the picture might be reproduced by the receiver of the code transmitted, using a machine provided with suitable type faces which would give the desired picture re-10 production when operated in accordance with the code used.

I am aware that it has heretofore been proposed to apply color to a work sheet by a mechanism controlled by manually selected 15 keys, as in the British Patent No. 15,734, dated 1910.

While I have shown but one embodiment of my invention, it is obvious that it may be embodied in other forms.

I claim:

1. A picture copying machine comprising a plurality of manually operable keys, a plurality of type faces associated with said keys, respectively, and which, by successively and 25 selectively operating the keys can be caused to make impressions to cover any desired portion of the work sheet, a feed mechanism for the work sheet for bringing successive contiguous portions of the work sheet into co-30 operative relation with the type faces, and means for framing successive contiguous portions of a picture to be copied as the keys are operated.

2. A picture copying machine comprising 35 a plurality of manually operable keys, a plurality of type faces associated with said keys, respectively, and which, by successively and selectively operating the keys can be caused to make impressions to cover any desired portion of the work sheet, a rotatable longitudinally shiftable cylindrical platen on which both the work sheet and the picture to be copied are mounted, and mean for framing the successive contiguous portions of the pic-45 ture to be copied as said platen is moved.

3. A picture copying machine comprising a plurality of manually operable keys, a plurality of type faces associated with said keys, respectively, and which, by successively and 50 selectively operating the keys can be caused to make impressions on a work sheet corresponding to successive contiguous portions of the picture to be copied, a feed mechanism for the work sheet for bringing suc-55 cessive portions of the work sheet into cooperative relation with the type faces, and means for framing successive contiguous portions of a picture to be copied as the keys are operated.

4. A picture copying machine comprising a plurality of manually operable keys, a plurality of type faces associated with said keys, respectively, and which, by successively and selectively operating the keys can be caused 65 to make impressions on a work sheet corre-

desired, the type faces, instead of reproduc- sponding to successive contiguous portions ing the picture directly, might be provided of the picture to be copied, a rotatable longiwith code letters or symbols and the result-tudinally shiftable cylindrical platen on which both the work sheet and the picture to be copied are mounted, and means for fram- 70 ing the successive contiguous portions of the picture to be copied as said platen is moved.

In witness whereof, I have hereunto sub-

scribed my name.

WM. C. O'HARE.

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