

Sept. 27, 1927.

J. W. SANDERS
CIGARETTE PRINTING DEVICE

Filed June 9, 1926

1,643,349

Fig. 1.

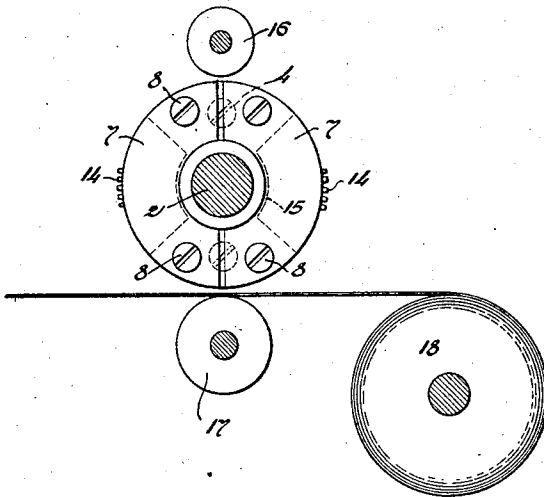


Fig. 2.

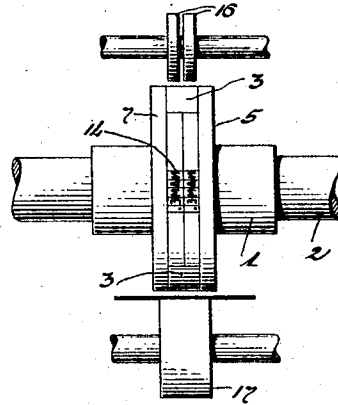


Fig. 3.

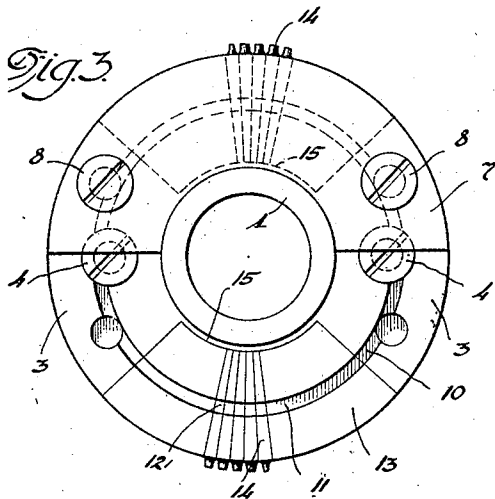


Fig. 4.

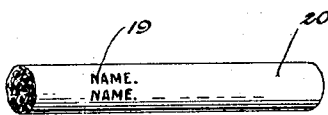
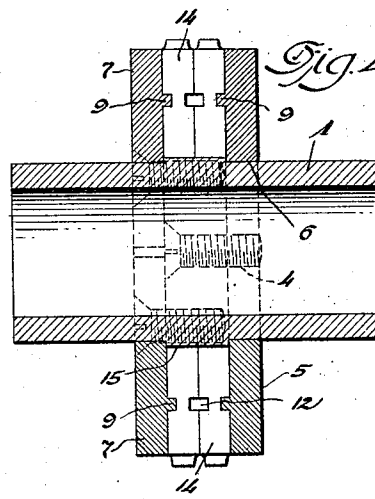


Fig. 5.

Inventor:

John W. Sanders

By

Barth Barth

Attorneys.

UNITED STATES PATENT OFFICE.

JOHN W. SANDERS, OF DETROIT, MICHIGAN.

CIGARETTE-PRINTING DEVICE.

Application filed June 9, 1926. Serial No. 114,691.

In the manufacture of cigarettes, machines are used and some of the machines equipped with a printing roll or device by which an individual name, advertisement or other indicia is printed on the cigarette wrapper or paper. It is the present practice to place the name or indicia transversely of the wrapper, adjacent the end thereof, and because of this transverse printing and limited space it is necessary to limit the name or indicia to be placed on the record, it being practically impossible to place a long name about the wrapper. Then again, it is often impossible to print or otherwise mark the name thereon in more than one color. Furthermore, expensive electroplates are ordinarily employed for printing purposes and since a cigarette manufacturer may have many customers, it is necessary to provide many electroplates. These reduce the profit on cigarettes, particularly a small order, in addition to the time and labor involved in changing the printing device for different printing plates.

My invention aims to provide a cigarette printing device which will place the name or indicia lengthwise of the cigarette wrapper, so that names of greater length or designs of greater area may be used.

My invention further aims to provide a rotary type holder with interchangeable type and it is in this holder that desired type may be set for printing a name or other indicia, without the necessity of using an electroplate or other fixed printing device. In my rotary type holder the form can be knocked down at any time and a new form quickly set up, and the disposal of the type is such that printing may be accomplished in one or more colors in one operation.

My invention further aims to provide a simple, durable and inexpensive rotary type holder that will be hereinafter specifically described and then claimed.

Reference will now be had to the drawing, wherein

Figure 1 is a side elevation of the rotary type holder in connection with a paper supply roll, platen and inking roll;

Fig. 2 is a front elevation of the same;

Fig. 3 is an enlarged side elevation of a

rotary type holder with one of the side plates thereof removed;

Fig. 4 is a vertical longitudinal sectional view of the type holder, and

Fig. 5 is a perspective view of a cigarette adapted to have one or more names placed longitudinally of the wrapper thereof.

The device comprises a hub portion 1 that is preferably tubular so that it may be suitably fixed to a driven shaft 2. Intermediate the ends of the tubular hub portion 1 are segment shaped opposed wings 3 and attached to these wings by screws 4 or other fastening means is a one-piece circular end plate or head 5 having a central opening 6 providing clearance for the hub portion 1. The head 5 is located on one end of the hub portion 1 against the wings 3 and detachably mounted on the opposite end of the tubular hub portion 1 are semi-circular head sections 7 adapted to form a head in opposed relation to the head 5. The head section 7 may be held relative to the wings 3 by screws 8 or other fastening means, and the screws 4 and 8 are adapted to have the heads thereof counter sunk, as best shown in Figs. 3 and 4.

The inner faces of the head sections 7 and the head 5 have annular ribs 9 adapted to extend into grooves 10 in the faces of the wings 3 and grooves 11 and 12 in slugs 13 and type 14 respectively. The slugs and type are sector shaped with the slugs serving as spacers or blanks between the top 14 and the wings 3, and with a font of type there will be many sizes of slugs or spacers so that there may be a desired set-up in the type holder. The type and slugs have converging end walls and parallel side walls, consequently said type and slugs can be sandwiched between the heads 5 and 7 and held against radial displacement by the ribs 9 extending into the grooves 10, 11 and 12. Both side faces of the slugs and type have the grooves, as best shown in Fig. 4, and the inner ends of the slugs and type bear on a small web 15 connecting the wings 3. This small web will also form an abutment for the end heads and thus provide a compact and substantial assembly of the type holder.

Reference will now be had to Figs. 1 and 2 showing the type holder relative to inking

rolls 16, a platen roll 17 and a supply roll of paper 18, the paper passing between the platen roll 17 and the type holder so that one or more names 19 or other indicia may be
5 applied to the paper which eventually forms the wrapper of a cigarette. The diameter of the type holder is such that the groups of type will be spaced a sufficient distance apart to make one impression on a wrapper and
10 since size and proportion does not enter into the invention, it is obvious that the type holder may be designed for desired printing on a desired size of wrapper. The printing operation is continuous and the elements
15 shown in Figs. 1 and 2 may form part of a cigarette making machine or constitute a separate printing apparatus.

One embodiment of my invention has been illustrated, but it is to be understood that

the structural elements are susceptible to such variations and modifications as fall within the scope of the appended claims.

What I claim is:—

1. A printing device comprising a hub portion having spaced wings, separable
25 heads mounted on said hub portion adjacent said wings, and type held by said heads between said wings.

2. A printing device comprising a hub portion having spaced wings, separable
30 heads mounted on said hub portion adjacent said wings, and type held by said heads between said wings, one of said heads being a one-piece member and the other being split
35 diametrically.

In testimony whereof I affix my signature.

JOHN W. SANDERS.