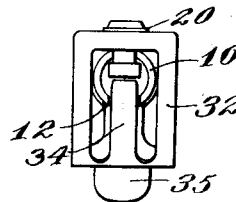
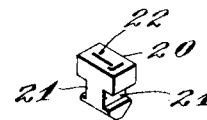
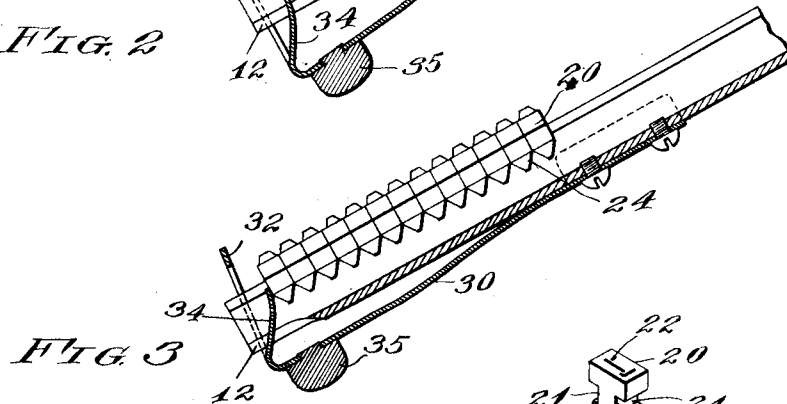
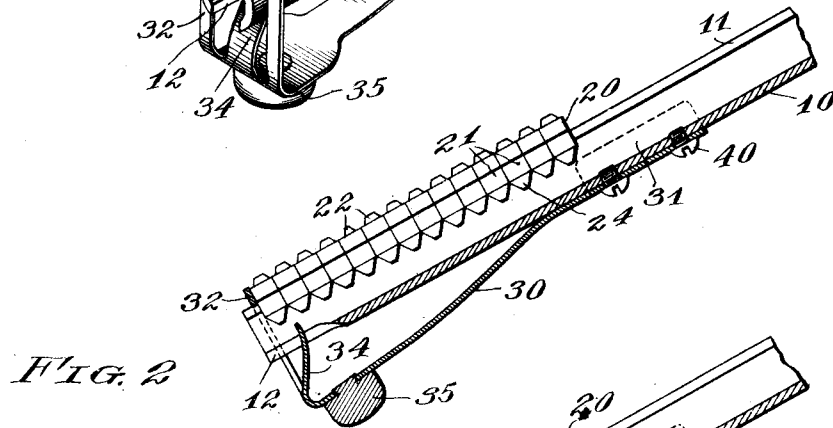
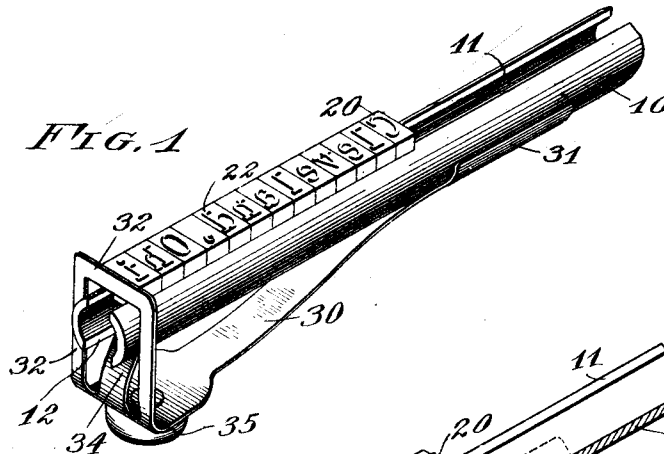


W. MANN.
TYPE DISTRIBUTING DEVICE.
APPLICATION FILED FEB. 8, 1911.

1,051,605.

Patented Jan. 28, 1913.



WITNESSES:
Brennan & West.
Oliver H. Kappeler.

FIG. 4

INVENTOR,
William Mann,
BY Albert H. Baker,
ATTY.

UNITED STATES PATENT OFFICE.

WILLIAM MANN, OF BUCKHURST HILL, ENGLAND, ASSIGNOR TO THE AMERICAN MULTIGRAPH COMPANY, OF CLEVELAND, OHIO, A CORPORATION OF OHIO.

TYPE-DISTRIBUTING DEVICE.

1,051,605.

Specification of Letters Patent.

Patented Jan. 28, 1913.

Application filed February 8, 1911. Serial No. 607,244.

To all whom it may concern:

Be it known that I, WILLIAM MANN, a subject of the King of Great Britain, residing at Buckhurst Hill, in the county of Essex, England, have invented a certain new and useful Improvement in Type-Distributing Devices, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

The object of this invention is to provide a very simple and efficient hand implement for holding a line of type and distributing it. This tool is especially well adapted for operating with short type grooved on its opposite sides.

The invention is hereinafter more fully described and its essential characteristics set out in the claims.

In the drawings, Figure 1 is a perspective view of the implement complete except that the upper end of the tool is broken away; Figs. 2 and 3 are vertical sections through the implement shown in Fig. 1,—Fig. 2 showing the spring gate in normal position, and Fig. 3 showing it in position just after it has discharged a type; Fig. 4 is an end elevation of the implement; Fig. 5 is a perspective view of type which the particular tool shown holds and distributes.

Referring to the parts by reference numerals, 10 indicates the body of the tool which is a split tube. That is to say, it is cylindrical except for a slot 11 parallel with the axis.

20 indicates the type which have grooves 21 on their opposite sides which correspond to the head and foot of the characters 22. The smooth, parallel edges provided by the slot 11 of the tool are adapted to occupy the grooves 21 of the type, the foot of the type extending into the tube and the head of the type projecting outside of the tube. With such tube inclined, as shown in the drawings, the type will slide by gravity toward the lower end of the tube.

To hold the type against escape from the lower end of the tube but to allow them to drop out, one at a time, whenever desired, I provide a spring gate designated 30. This gate has a shank, by which it is secured to the tube 10, as by means of screws 40. The shank is preferably provided with a lateral head 31 to embrace, to a certain extent, the tube and more effectively hold the spring

gate thereto. At its free end the spring 30 is provided with a yoke 32 which extends freely on opposite sides of the tube and passes over the top thereof. This free end of the spring gate also has a tongue 34 placed centrally and rising within an open space in the yoke and extending through a notch 12 in the lower wall. The yoke 32 is shown as rising approximately at right angles to the shank of the gate 30 while the tongue bends backwardly toward the head of the shank, as shown.

With the spring gate formed as described, the foremost type in the holder has its head resting across the yoke of the cross bar 32, as shown in Fig. 2, while the tongue 34 is idle. If now the spring gate be pressed toward the tube, the tongue 34 engages the next to the bottom type, while the yoke 32 rises above and frees the bottom type, allowing it to slide by gravity out of the tube. This operation may be very conveniently accomplished by the operator holding the tube in his hand and pressing the lower portion of the gate against some stationary abutment, whereby the free end of the tube is lowered to cause the release of the bottom-most type, as described. I have shown secured to the under side of the spring gate a suitable knob 35 which preferably is rounded on its under surface and receives the impact as the tool is moved to discharge type.

Ordinarily a suitable case will be provided to receive the type having different receptacles for different characters and to distribute the type in the holder it is only necessary to move it about from receptacle to receptacle and strike the bumper 35 against the base or wall of the receptacle to discharge the bottom type therein.

I have shown the type as having beveled feet 24 and I have shown the tongue 34 adapted to project between the bevels of the bottom type and the next to the bottom type in order to engage the next to the bottom type. This is a very efficient arrangement, as each type is effectively held by the tongue 34 before the yoke 32 releases the bottom type. My tool, however, may operate with type having flat bottoms, in which case the end of the tongue 34 may be bent back toward the secured portion of the spring gate so that it will obtain a spring bearing against the base of the next to the bottom

type sufficient to hold the line of type there-
above when the yoke 32 releases the bottom-
most type.

Having thus described my invention, what
5 I claim is:—

1. In a type distributing implement, the
combination of a portable split tube holder,
a spring secured to the holder some distance
back from the discharge end and extending
10 on the underside of the holder and having
two projecting portions, one of which may
engage the endmost type and the other type
next thereto.

2. In a type distributing implement, the
15 combination of a portable split tube, and a
spring secured to the under side of the tube
and extending along it and operable from
below and having a free end movable trans-
versely of the tube, said end being provided
20 with two portions, one of which may engage
the endmost type and the other the type
next to the end.

3. In a type distributing implement, the
combination of a member for holding the
25 line of type, a spring gate secured thereto
and having a yoke extending loosely around
the member and adapted to engage type pro-
jecting above the member, said gate having
also a tongue extending into the member and
30 adapted to engage the foot of type therein.

4. In a type distributing implement, the
combination of a portable holder for a row
of grooved type, and a spring gate mounted
on the holder and provided with means to
35 engage the head of one type and the foot of
the next adjacent type alternately, said gate
having a movable portion below the holder,
whereby said gate may be operated by
downward movement of the discharge end
40 of the holder.

5. In a type distributing implement, the
combination of a tubular type holder hav-
ing a longitudinal slot through it whereby
type grooved on its opposite sides may be
45 held in a row with their heads above the
tube and their feet within the tube, and a
spring gate secured to the tube and having
a yoke passing around the tube and adapted
to engage the heads of successive type, said
50 gate having a tongue projecting into the
tube adapted to engage the feet of type.

6. In a type distributing implement, the
combination of a split tube, a spring gate
secured to the tube on the side away from

the split, said tube having an opening on 55
the side adjacent to the gate, a tongue form-
ing a portion of the gate and extending
through such opening and adapted to en-
gage the type within the tube, and other
means carried by the gate for engaging the 60
head of the type outside of the tube.

7. A type distributing implement adapted
to operate with type grooved on its opposite
sides and beveled on its feet comprising a
split tube forming a guideway for the type, 65
and a spring gate carried by the tube and
yoking around it to engage the head of the
type and having a projecting tongue adapt-
ed to engage between the bevels of the feet
of the type. 70

8. In a type distributing implement, the
combination of a portable holder having a
type channel for loosely confining grooved
type, and a spring gate mounted on the
holder and acting within the holder on one 75
type and having a yoke acting outside of
the holder on the adjacent type to discharge
them one at a time.

9. A portable type distributing imple-
ment comprising a holder having a channel 80
for containing a row of type, and a gate
mounted on the holder and normally acting
on the endmost type in the channel, said
gate being movable by downward impact of
the holder to act on next to the endmost 85
type.

10. In a portable type distributing imple-
ment, the combination of a split tube acting
as a holder for a row of type, and a spring
gate mounted on said tube and normally 90
acting on the endmost type but movable by
impact on its underside to act on the next to
the endmost.

11. As a new article of manufacture, a
portable type distributing implement hav- 95
ing a channel for a row of type and a spring
gate carried by the implement and normally
engaging and holding the endmost type but
movable by engagement of its underside to
engage and hold the next to the endmost 100
while freeing the endmost type.

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

WILLIAM MANN.

Witnesses:

WILLIAM EDWARD CARTER,
JAS. A. STAFFORD.