T. G. CRYMES.
DENTAL FILLING TOOL.
No. 536,327. Patented Mar. 26, 1895.

FIG. 1.

FIG. 2.

FIG. 3.

FIG. 4.

FIG. 5.

WITNESSES:

Harry N. Bamber
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T. G. CRYMES

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THOMAS G. CRYMES, OF PIEDMONT, SOUTH CAROLINA, ASSIGNOR TO THE
S. S. WHITE DENTAL MANUFACTURING COMPANY, OF PHILADELPHIA,
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DENTAL FILLING-TOOL.

SPECIFICATION forming part of Letters Patent No. 536,327, dated March 26, 1895.
Application filed February 11, 1895. Serial No. 527,978. (No model.)

To all whom it may concern:

Be it known that I, THOMAS G. CRYMES, a
citizen of the United States, residing at Pied-
mont, in the county of Greenville and State of
South Carolina, have invented certain new
and useful Improvements in Dentists' Imple-
ments; and I do hereby declare the following
to be full, clear, and exact description of the
Invention, such as will enable others skilled in
the art to which it appertains to make and use
the same.

My invention relates to certain improve-
ments, as hereinafter claimed, in carriers for
amalgam fillings for teeth, and in the connec-
tion of such carriers with plugging imple-
ments.

In the accompanying drawings, Figures 1 and 2
are longitudinal views of the implement, the one view being at a right angle with
the other; and Figs. 3, 4 and 5 are detail views
on an enlarged scale, Fig. 3 being designed to
show how the filling material is picked up, and
Fig. 4 how it is ejected from the carrier; while
Fig. 5 shows the construction of the spring by
which the carrier tube or filling holder is nor-
mally held in position to receive and carry
the filling material.

The handle A, shank B, and plugging point
C constitute a plugging of ordinary construc-
tion.

Projecting from the shank of the imple-
ment, laterally thereto and in a direction the
opposite to that in which the plugging point
projects, is a pin or rod D performing the
function of a plunger as in turn to be ex-
plained. This plunger D is enlarged at its
outer end, being formed with the annular
shoulder d. A tube E for holding the filling
material surrounds the plunger and is adapted
to have a limited sliding movement thereon.
At its inner end the filling holder E has its
internal diameter reduced, being annularly
shouldered at e. Contact of this shoulder e,
with the shoulder d of the plunger limits out-
ward movement of the holder. The holder is
provided at its outer end with an external
shoulder f against which bears the curved
outer end g of a spring G which is secured at
its inner end to the shank of the implement
parallel with which it extends to the point h
where it bends or projects sidewise so that it
may be extended clear of the shank to its
curved outer end g which bears upon the fill-
ing holder.

In operation, the filling material is picked
up by the holder by pressing it down upon a
suitably prepared quantity thereof, (see Fig.
3) a finger being kept pressed upon the spring
at the time. The material in the holder is
then carried to a properly prepared tooth
cavity to be filled and the holder pressed upon
the tooth opposite to the cavity in which it is pre-
sented so that upon the inward movement of
the holder, as the spring yields, the material
is forced into the cavity by the plunger. Dur-
ing the insertion of the filling material into
the cavity it will of course be understood that
the spring must be relieved from pressure of
the finger so as to be free to yield. The fill-
ing material is then suitably packed in the
cavity by the plunger point, the one imple-
ment serving, it will be seen, to carry and ap-
ply the filling and pack it in the cavity.

I claim as my invention—

1. The combination with the implement
shank, of the fixed plunger projecting there-
from, the filling holder movably on the plun-
ger, and the spring secured to the shank, ex-
tending for a portion of its length parallel
therewith, and bearing upon the holder, sub-
stantially as set forth.

2. The dentist's implement provided with
the plugging point, the fixed plunger project-
ing laterally to the implement shank and in
a direction opposite that in which the plug-
ging point projects, the filling holder mova-
able on the plunger, and the spring acting upon
the holder to normally maintain it in position
to pick up and carry the filling material, sub-
stantially as set forth.

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

THOMAS G. CRYMES.

Witnesses:

DANIEL W. HOLLOWAY,
EDW. F. SIMPSON, Jr.