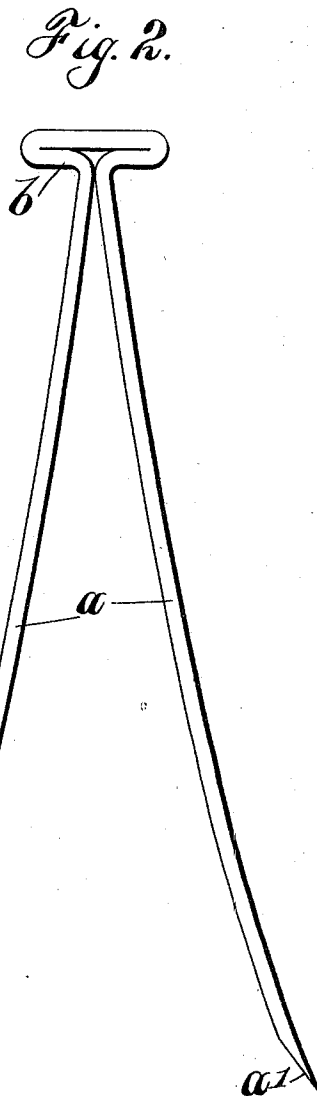
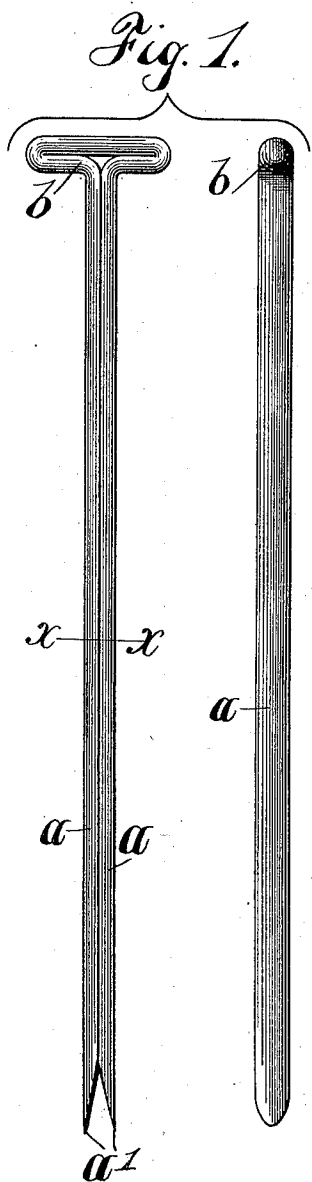


(No Model.)

F. SCHULTE.
MOLDER'S TACK.

No. 519,164.

Patented May 1, 1894.



Witnesses:
H. G. Nieberich
Henry Orth

Inventor:
Franz Schulte
by Henry M. W. Att'y.

UNITED STATES PATENT OFFICE.

FRANZ SCHULTE, OF HAMBURG, GERMANY.

MOLDER'S TACK.

SPECIFICATION forming part of Letters Patent No. 519,164, dated May 1, 1894.

Application filed August 25, 1893. Serial No. 484,052. (No model.)

To all whom it may concern:

Be it known that I, FRANZ SCHULTE, a subject of the German Emperor, and a resident of Hamburg, in the German Empire, have invented certain new and useful Improvements in Molders' Tacks, of which the following is a specification.

My invention relates to an improved tack or nail to be used by molders for holding the sand of molds better together or for fixing the cores in such molds.

It has heretofore been customary to use pins or nails for the said purpose, such pins or nails having the shape of ordinary round nails with a flat head and a length which varies according to requirements. The pins or nails are simply inserted into the sand in order to hold it together at such points of the mold as are most liable to be injured or break away or they serve for fixing or holding down cores, the latter being secured upon the sand by means of two or more pins or nails.

The molders' pins or nails heretofore employed have the defect that they are liable to become loose in the sand, thus rendering it necessary, in order to obtain a sufficient hold, to employ a comparatively great number of the same.

To obviate this inconvenience is the object of my said invention.

In the accompanying drawings, in which similar letters refer to similar parts throughout the several views, Figure 1 shows two different side elevations of my improved molder's tack or pin in the position of rest, while Fig. 2 represents the same in the position which it is liable to occupy when inserted into the sand of the mold, and Fig. 3 is a cross section of the tack on line $x-x$ of Fig. 1.

The improved molder's tack or pin is split

so as to form two springy shanks a a connected with each other by a head b . The lower ends of the shanks are beveled at their inner edges a' a' . It is expedient to make this tack or pin of half-round wire, its shanks and head being formed of a single piece. When such a molder's tack or pin (Fig. 1) is driven into the sand its shanks are forced apart, as illustrated by Fig. 2, by the sand in consequence of the wedge-shaped bevels a' a' at their ends, thus giving the pin or tack a better hold in the sand, which will also be better kept together, because the springy shanks firmly hold a certain quantity of sand between them. With the improved pin or tack the same or a better effect is obtained than with at least two ordinary molders' pins or nails.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

A molder's tack constructed of a single piece of half round wire bent to form a cross head b , and shanks a , a , extending centrally therefrom, the proximate faces at the outer end of said shanks being beveled in opposite directions, to form a wedge shaped slot between them, said wire sufficiently elastic to cause the shanks to spread when the tack is inserted into the sand, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 25th day of July, 1893.

FRANZ SCHULTE.

Witnesses:

ALEXANDER SPECHT,
MAX KAEMPF.