(No Model.)

G. T. CHAPMAN.

WOOD SCREW.

No. 449,037. Patented Mar. 24, 1891.

Fig. 1.

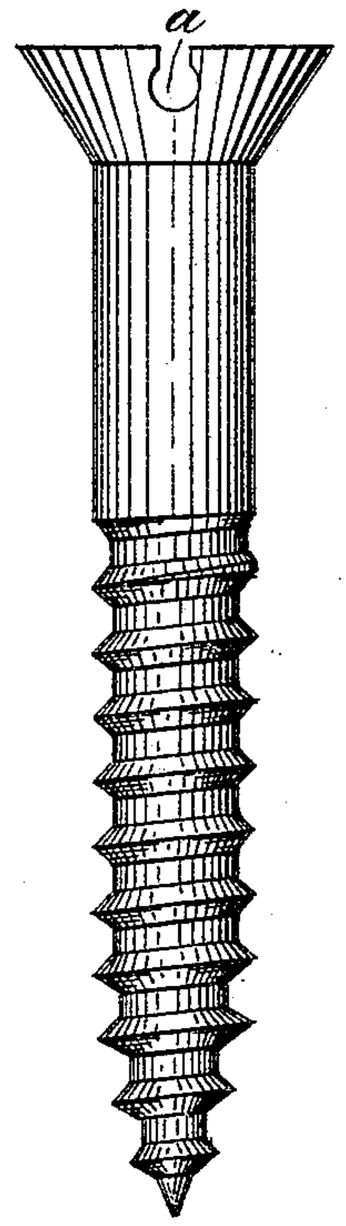
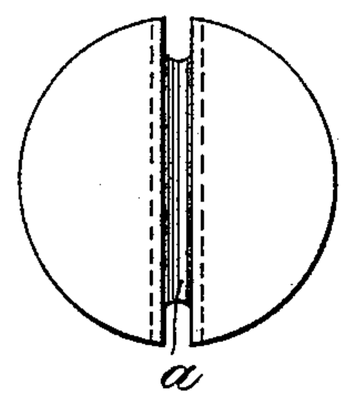


Fig. 2.



Witnesses:
Ernst Lundgren
H. J. Morgan

Inventor:
Geo T Chapman
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his Attorney

UNITED STATES PATENT OFFICE.

GEORGE T. CHAPMAN, OF WHITE PLAINS, NEW YORK.

WOOD-SCREW.

SPECIFICATION forming part of Letters Patent No. 449,037, dated March 24, 1891.

Application filed July 23, 1890. Serial No. 359,590. (No model.)

To all whom it may concern:

Be it known that I, GEORGE T. CHAPMAN, a citizen of the United States, and a resident of White Plains, in the county of Westchester and State of New York, have invented new and useful Improvements in Wood-Screws, of which the following is a specification.

My invention is an improved form of the nick in the head of the screw, the objects of which are to strengthen the head against the tendency of breakage by the screw-driver and so that it will retain the filling of putty generally applied in finishing interior work more effectually, all as hereinafter fully described, reference being made to the accompanying drawings, in which—

Figure 1 is a side elevation of a wood-screw constructed in accordance with my invention, and Fig. 2 is a top view.

I make the nick *a* wider below the surface of the head than thereat and curved from side to side at the bottom, said curve being preferably on a greater radius than the half of the width of the nick at the top. The nick of this form may be produced in any approved way, as by first sawing the nick in the usual way the width of the top, but with a saw having a suitably-curved edge, and then, while the head of the screw is confined in suitable dies, punching out the wider portion below; but it may be produced in any other way that may be preferred.

The curved form of the bottom of the nick affords material protection against breaking by the stress of the screw-driver not possessed in a screw having the angular form of the bottom of the nick, because it distributes the stresses over the whole of the curved surface, while in the angular form the stresses are concentrated in the angles, so that the head is much weaker and breaks in many cases where it will not as I have constructed it.

The advantage of this form of nick for retaining putty in inside work is obvious. If necessary, I will case-harden the head to prevent the edges of the nick from being jammed or upset by the pressure of the screw-driver.

I claim—

The improved wood-screw having a nick wider below the surface of the head than thereat and curved from side to side in the bottom, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 26th day of April, 1890.

GEO. T. CHAPMAN.

Witnesses:

W. J. MORGAN,

W. B. EARLE.