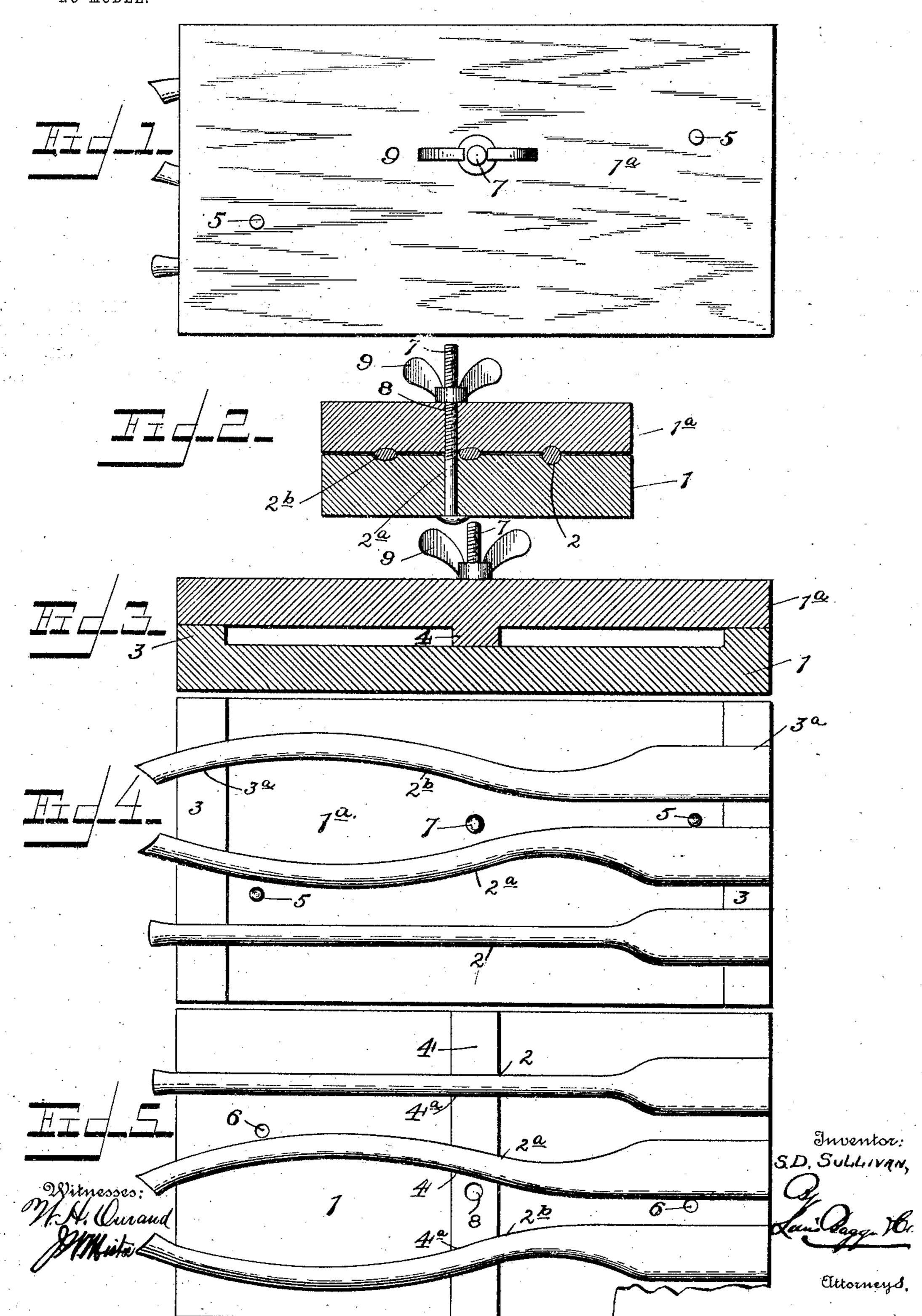
S. D. SULLIVAN.

APPARATUS FOR STRAIGHTENING AX HANDLES. APPLICATION FILED APR. 18, 1904.

NO MODEL.



United States Patent Office.

STEPHEN DUNKLING SULLIVAN, OF CARTWRIGHT, TEXAS.

APPARATUS FOR STRAIGHTENING AX-HANDLES.

SPECIFICATION forming part of Letters Patent No. 768,490, dated August 23, 1904.

Application filed April 18, 1904. Serial No. 203,787. (No model.)

To all whom it may concern:

Be it known that I, Stephen Dunkling Sullivan, a citizen of the United States, residing at Cartwright, in the county of Wood 5 and State of Texas, have invented new and useful Improvements in Apparatus for Straightening Ax-Handles, of which the following is a specification.

My invention pertains to improvements in 10 what may be termed "wood-bending" machines or presses, more particularly designed for straightening or restoring to their normal or original outline distorted or warped ax-

handles.

It has for its object, as implied, to obviate the loss or rendering unsalable this class of goods should they become crooked or warped, as has occurred from the changes or action of the temperature thereon, especially if not 20 previously properly seasoned, as when stored or kept in stock for sale, and to secure the aforesaid object in an effective and ready way.

Said invention consists of the combination of certain parts including their construction 25 and arrangement, substantially as hereinafter more fully disclosed, and particularly pointed

out by the claims.

In the accompanying drawings, illustrating the preferred embodiment of my invention, 3° Figure 1 is a plan view thereof. Fig. 2 is a cross-section, and Fig. 3 is a longitudinal section, of the same. Figs. 4 and 5 are views disclosing the principal parts or members of the invention disassembled and viewed from 35 their normally upper and lower or inner sur-

faces, respectively.

In the practicing of my invention I provide principally two parts or members 1 1ª, produced or formed either of wood or metal, 4° as may be thought more practicable. Said members or parts, preferably in their general outline rectangular, are provided in their inner or facing surfaces with longitudinal grooves or channels 2 2ª 2b, presumably of a 45 depth jointly equal to the cross-section of a handle and in general contour corresponding to that of the latter for the reception thereof, as presently seen. One of these grooves, 2, is mainly straight throughout, while the others,

2^a 2^b, are of a recurved contour, one, however, 50 being the reversal of the other, the purpose

of which will appear later.

The base member or part 1 has extending transversely thereof at its ends bearings or upraised portions or ledges 3, with continua- 55 tions of said grooves or channels 3ª formed therein, conforming to the terminals of the ax-handles, as shown, and about the transverse center of the opposite member or part is a depending portion or ledge or bearing 4, 60 having, of course, therethrough continuations 4ª of the grooves or channels therein.

The base member or part 1 has extending vertically upward therefrom guide or bracing studs or pins 5, one arranged at or near 65 each end of said member engaging or entering coincident apertures 6, produced in the other or top member 1a, which apertures, however, need not extend wholly through the latter, said pins or studs aiding to prevent 70 lateral displacement of the top member in offering the requisite resistance tending to such displacement, as in effecting the compressing or straightening operation, as will later appear. Also upstanding from the base 75 member, about centrally thereof, is a screwbolt 7, adapted to pass through a corresponding aperture 8 in the top member or part, said screw-bolt being fitted or equipped above the latter with a thumb-nut 9, whereby pres- 80

sure may be exerted upon said latter member. In operation a handle of the straight type such, for instance, as used in a double-bladed ax—which may have become warped or distorted is initially placed by hand in the gen- 85 eral plane of the groove 2 in the bottom member 1, while other handles as their treatment may require may be disposed in like manner with relation to the grooves 2ª 2b of said member. The top member 1^a is put into proper 90 position upon the bottom member, with the screw 7 passing therethrough and the thumbnut 9 placed upon said bolt. By suitably turning said nut to the required extent the requisite pressure is transmitted via said top 95 member to said handles to force the latter into said grooves, or in the direction of least resistance, thus restoring them to normal condition. The pressure thus applied is maintained until the required stressing of the handles has been secured, the practicalness of which I have demonstrated.

This invention will be found to be very serviceable and of value in the execution of its

intended purpose.

Latitude is allowed as to details herein, as they may be changed as circumstances sug-10 gest without departing from the spirit of my invention and the latter still be protected.

I claim—

1. A device of the character described consisting of two members having facing longi-15 tudinal grooves or channels therein, and means adjunctive to said members, respectively, to hold the same apart a suitable distance intermediately of their ends and center and yet having contact one with the other at said ends 20 and center, and one of said members having upstanding guide or bracing studs and a screwbolt, passing through the companion member

with a nut applied to said screw-bolt outside of the latter member.

2. A device of the character described, con- 25 sisting of two members having longitudinal channels or grooves therein, one of said members having end transverse upraised ledges or portions and the other member having a central transverse depending portion, the first-re- 3° ferred - to member also having upstanding studs or pins engaging apertures in the lastreferred-to member, and an upstanding screwbolt passing through an aperture in the latter member and having applied thereto a thumb- 35 nut.

In testimony whereof I have signed my name to this specification in the presence of two sub-

scribing witnesses.

STEPHEN DUNKLING SULLIVAN.

Witnesses:

O. B. Vickers, A. R. CRUCE.