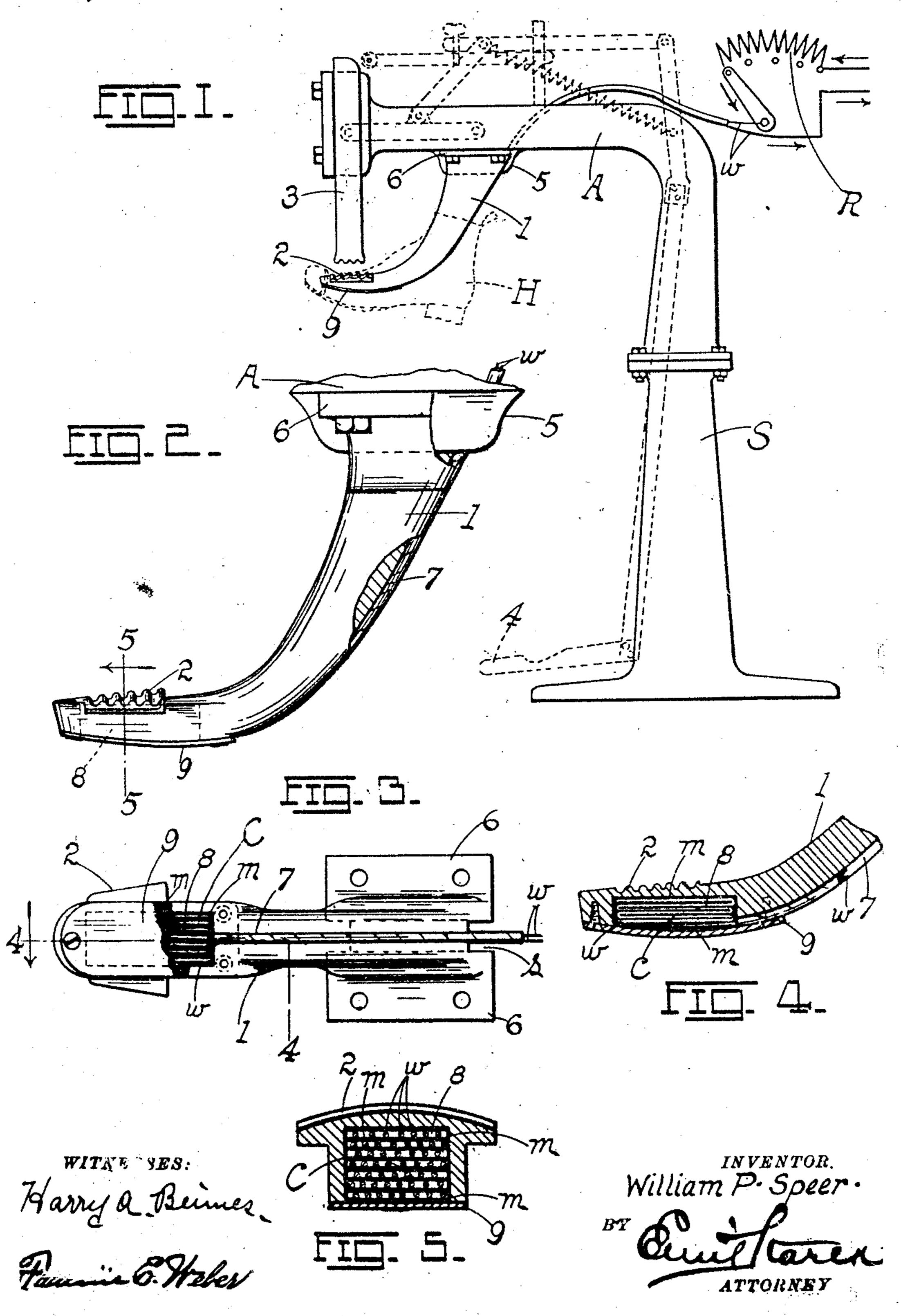
W. P. SPEER.
SHOE CRIMPER.
APPLICATION FILED JULY 25, 1910.

985,467.

Patented Feb. 28, 1911.



UNITED STATES PATENT OFFICE.

WILLIAM P. SPEER, OF ST. LOUIS, MISSOURI.

SHOE-CRIMPER.

985,467.

Specification of Letters Patent. Patented Feb. 28, 1911.

Application filed July 25, 1910. Serial No. 573,611.

To all whom it may concern:

Be it known that I, WILLIAM P. SPEER, citizen of the United States, residing at St. Louis, State of Missouri, have invented cer-5 tain new and useful Improvements in Shoe-Crimpers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

10 My invention has relation to improvements in electrically-heated shoe-crimpers; and it consists in the novel details of construction more fully set forth in the specification and pointed out in the claims.

15 In the drawings, Figure 1 is a side elevation of a standard showing my invention bolted thereto; Fig. 2 is a side view of the crimper with parts broken away; Fig. 3 is a rear or bottom view, with parts broken 20 away; Fig. 4 is a longitudinal section on the line 4-4 of Fig. 3; and Fig. 5 is a crosssection on the line 5—5 of Fig. 2.

The present invention has for its object to provide an electrically-heated shoe-crimper 25 or creaser, that is to say, for crimping shoe-uppers, in which the temperature may be maintained as uniform as possible, this resulting in a product correspondingly uniform. Where, as in the prevailing method, 30 a crimper is heated by a flame, the temperature of the device begins to drop the moment the flame is removed; and, as the heat can not be retained for any considerable length of time, the uppers treated last are 35 subjected to a much lower temperature than those treated first, and hence the product is not uniform.

The advantages of the invention will be clearly apparent from a detailed descrip-

40 tion thereof, which is as follows:

Referring to the drawings, S represents a standard to an arm A of which is bolted or otherwise secured the crimper 1. The crimper comprises a curved arm or member 45 1 of the form substantially as shown, the upper face of the free end thereof being provided with a transversely ribbed terminal form or die 2, the ribs being parallel and serving to impart the necessary impression or finish to the front of the shoe upper, it, and the necessary impression is made as the shoe H being passed over the form as | well understood in the art. well understood in the art, and the necessary impression made by a reciprocating anism, that here shown in outline being a 'the reception of an electric heating coil, a

common design in this class of machines, and forming no part of the recent invention.

The crimper 1 is rigidly secured to the 60 arm A of the standard S, the said arm being provided with a tongue 5 inserted into a socket s of the crimper formed between the upper terminal flanges 6, 6, which are bolted to the arm. The rear edge or wall 65 of the crimper is provided with a graove 7 extending from the socket s along the length of the crimper member 1, and terminating at the rear of a front basal chamber or cavity 8 which is formed directly opposite the 70 form or die 2. Within this cavity is placed a heating coil C in the present form consisting of wire w wound around sheets of mica m, though I do not wish to be limited to any particular construction of coil. The insu- 75 lated ends of the wires leading from the coil are led through the groove 7 where they are protected against outside interference, the wires leading out of the groove to a suitable resistance coil or rheostat R by which 80 the strength of the current (coming from any suitable source of electrical energy, not shown) may be accurately adjusted to produce any desired temperature in the coil. The latter is protected, and held in position 85 within the chamber 8 by a cover plate 9 screwed to the member 1 opposite the wall which carries the die 2, a sheet of mica m insulating the plate from the coil. It is readily seen that the temperature at which 90 the die 2 should be maintained to make a uniform impression on the leather of the shoe-uppers, can be regulated to a nicety. so that a uniform product can be turned out.

It may be stated in passing that while the 350 crimps formed by the transverse ribs of the die leave a permanent ornament or impression on the shoe-upper, they incidentally serve the purpose of preventing the starting of the cracking of the leather in walking, 100 the transverse grooving of the leather already corresponding to the positions which the cracks would assume were the upper left. uncrimped. As each shoe is passed over the. hot die, the plunger 3 is forced down upon 108

Having described my invention, what I

claim is: plunger 3 operated by a pedal 4 through 1. In a shoe-crimper, the combination of 110 any convenient series of links or other mech- | an arm terminating in a die chambered for

bottom cover plate insulated from the coil for closing the chamber, and a groove formed along the wall of the arm for the insertion of the wire terminals leading from 5 said coil.

2. In a shoe-crimper, the combination of an arm terminating in a die chambered for the reception of an electric heating coil, a bottom cover plate insulated from the coil for closing the chamber, and an open groove

formed in the wall of the arm and terminating at one end at the chamber aforesaid for holding the conducting wires leading from the coil.

In testimony whereof I affix my signa- 15 ture, in presence of two witnesses.

WILLIAM P. SPEER.

Witnesses: EMIL STAREK,

FANNIE E. WEBER.