

W. G. PARKER.
LAST AND UPPER PROTECTOR.
APPLICATION FILED OCT. 30, 1911.

1,032,422.

Patented July 16, 1912.

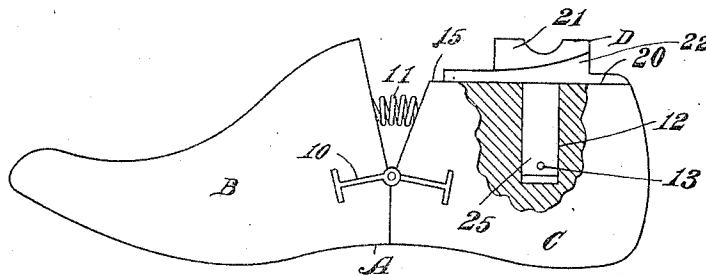


Fig. 1.

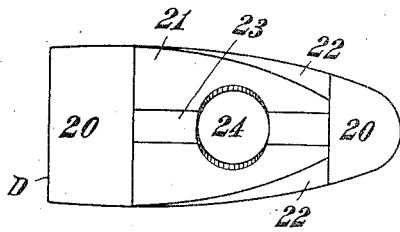


Fig. 2.

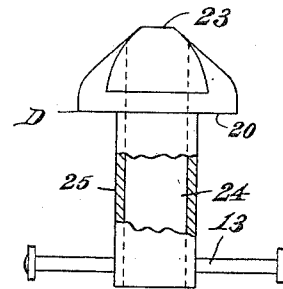


Fig. 3.

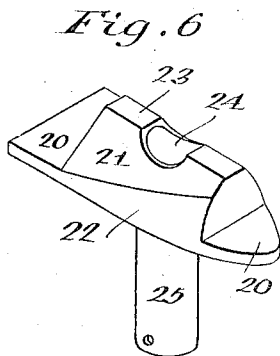


Fig. 6.

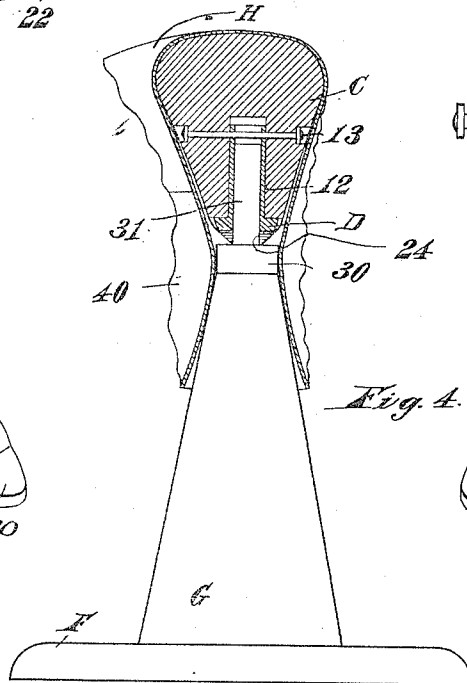


Fig. 4.

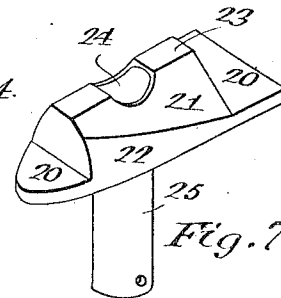


Fig. 7.

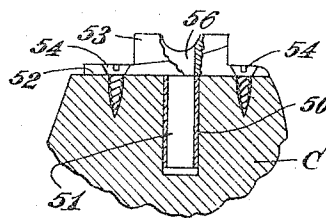


Fig. 5.

Witnesses:
Ludger A. Nicol.
Harold F. Dodge

Inventor:
William G. Parker.
By Gardner D. Parson
His Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM G. PARKER, OF NASHUA, NEW HAMPSHIRE.

LAST AND UPPER PROTECTOR.

1,032,422.

Specification of Letters Patent.

Patented July 16, 1912.

Application filed October 30, 1911. Serial No. 657,547.

To all whom it may concern:

Be it known that I, WILLIAM G. PARKER, a citizen of the United States, residing at Nashua, in the county of Hillsboro and State of New Hampshire, have invented certain new and useful Improvements in Last and Upper Protectors, of which the following is a specification.

This invention relates to devices for manufacturing shoes and has particular references to lasts. Such lasts are ordinarily placed upon what is known as a spindle which enters an opening therein and supports the last during the processes of lasting, heeling and leveling.

In the usual form of device, the spindle is supported by a stand and between the stand and the spindle forming a part of one or the other is a base or shoulder upon which the bottom of the last rests. With the usual construction of last, a ferrule is fixed in the opening in the last and the spindle enters this ferrule. Great difficulty has been experienced on account of the splitting of lasts during the above named processes of lasting, heeling and leveling and also from the fact that the uppers are frequently cut and ruined by being caught between the square edges of the last and the square edges of the base or shoulder.

In the drawings, Figure 1 is a side view of a last with my device in place. Fig. 2 is a top view and Fig. 3 is a back view of my device. Fig. 4 is a vertical sectional view of a last equipped with my device and in place upon the spindle. Fig. 5 is a side sectional view of a modified form of my device. Figs. 6 and 7 are perspective views of the protector.

A represents a last comprising a toe section B and a heel section C. The top part 15 of heel section C is flat. These sections B and C are shown as of a usual construction connected by a hinge 10 and spring 11. In the heel portion C is a cylindrical opening 12. My protector D is formed preferably of a single piece of metal comprising a flat portion 20 whose outlines correspond with the outlines of the flat surface of the top 15 of heel portion C. The middle portion of my protector is raised at 22 and is beveled or slopes inward as shown at 21 terminating in the ridge 23. Through the center of this raised portion and ridge 23 extends a passage 24 of a larger diameter than the width of ridge 23 and of such size

that the spindle will comfortably enter therein. This passage extends through the entire protector and through a tubular extension 25. This tubular extension 25 enters opening 12 in the heel portion C and is held in place therein by means of a pin 13 which passes through the last and through tubular extension 25. Thereby the protector D is held firmly in place and prevented from turning by a single pin near the middle of heel portion C. By this method of fastening, the danger of splitting the last is much reduced.

F represents a table or bench and G a support thereon which carries a shouldered collar 30 which forms a base for spindle 31. As will be seen in Fig. 4, the ridge 23 of protector D so rests on base 30 that it is impossible for the upper portion 40 of the shoe H in the process of lasting, heeling or leveling to be pinched between the shoulder and the protector or between the shoulder and the last.

In Fig. 5, I show a modified form of my device in which C is the heel portion of the last in which is an opening 50 in which may be inserted a ferrule 51. In this case, the protector has a flat portion 52, a raised beveled portion 53 and a passage 56 substantially similar to the protector D, but ferrule 51 is not attached thereto. The protector is so held in place by means of screws 54 which enter the last that passage 56 registers with the passage in ferrule 51.

As the flat portion of the protector rests on the flat portion of the heel section, the force of any pressure is distributed and the tendency of the last to chip or split is reduced.

What I claim as my device and desire to cover by Letters Patent, is:

1. A last and upper protector comprising a piece of metal having a flat portion which fits the flat portion of the last and a raised beveled portion which extends upward therefrom forming a ridge, and a tubular extension opposite the raised beveled portion, there being a passage through the tubular extension and the ridge.

2. The combination of a last having a flat portion at the top of the heel and a cylindrical opening therein, with a last and upper protector comprising a piece of metal having a flat portion which fits the flat portion of the last and a raised beveled portion which extends upward therefrom forming a

ridge, and a tubular extension integral therewith which extends into the cylindrical opening in the last, there being a passage through the tubular extension and the ridge, together with a pin which passes through the last and the tubular extension.

3. The combination with a last having a flat surface on the top of the heel and a cylindrical opening therein, of a last and upper protector comprising a piece of metal having a flat portion which fits the flat portion of the heel and a raised beveled portion forming a ridge through which is a cylindrical passage which registers with the cylindrical passage in the last, and means for attaching the protector to the last.

4. The combination of a last having a flat

portion at the top of the heel and a cylindrical opening therein, with a last and upper protector comprising a piece of metal having a flat portion which fits the flat portion of the last and a raised beveled portion which extends upward therefrom forming a ridge, and a tubular extension integral therewith which extends into the cylindrical opening in the last, there being a passage through the tubular extension and the ridge.

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

WILLIAM G. PARKER.

Witnesses:

JOSEPH P. CLOUGH,

WILLIAM C. SMALL.