

(No Model.)

G. W. LUDLOW.
SHOE MAKER'S BENCH.

No. 446,135.

Patented Feb. 10, 1891.

Fig. 1.

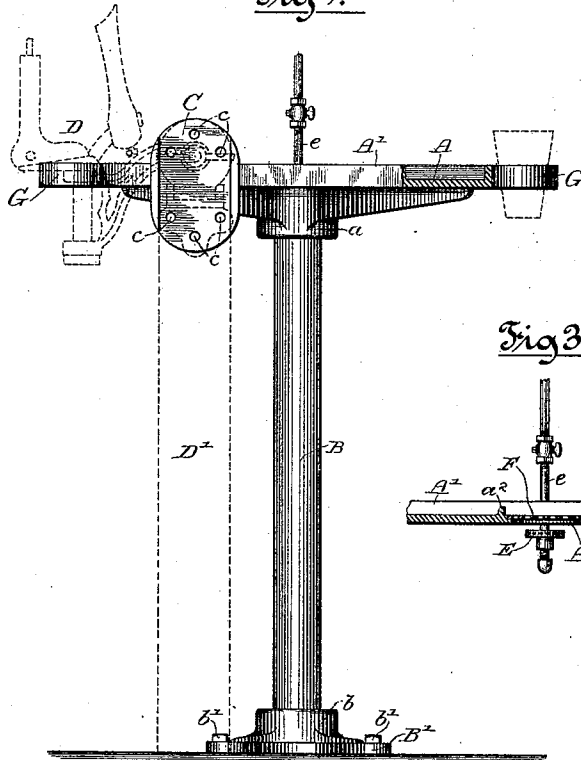


Fig. 3.

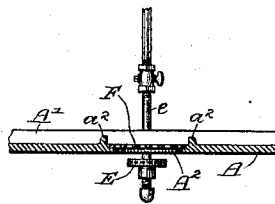
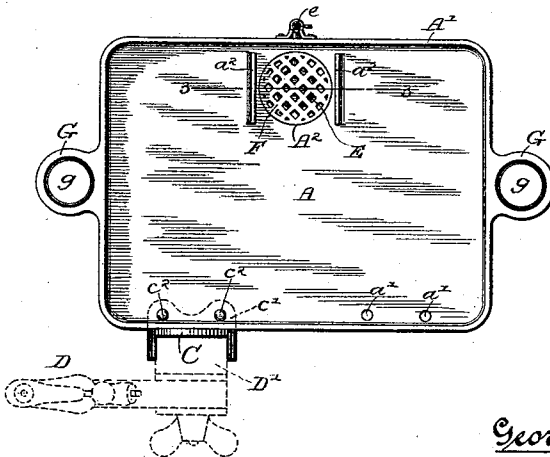


Fig. 2.



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UNITED STATES PATENT OFFICE.

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SHOE-MAKER'S BENCH.

SPECIFICATION forming part of Letters Patent No. 446,135, dated February 10, 1891.

Application filed July 3, 1890. Serial No. 357,604. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. LUDLOW, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Shoe-Makers' Benches; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to an improved bench or table for use in the manufacture of shoes or in shoe-factories. Heretofore workmen who perform the operations of lasting, heel-
15 ing, trimming, finishing, burnishing, and similar operations have been provided with wooden benches or tables of large size, at each of which a number of workmen are stationed.
20 At the edges of said tables the jacks for holding the lasts are located, and the posts or supports for the said jacks are attached to the same. The employment of such wooden benches is objectionable for several reasons.
25 One is that in burnishing or other operations a gas or other heater is employed for heating the tools, and such heater, being secured on the wooden table, involves great danger from fire, and, in fact, many fires in shoe-factories
30 have occurred from this cause. Another serious objection to the use of such wooden tables or benches arises from the general danger from fire arising from the combustible nature of the table or bench itself and the combustible waste materials and refuse which
35 commonly accumulate under or about such benches or tables in factories. Such wooden tables or benches are further objectionable as affording numerous places of refuge for roaches and other vermin which are likely to
40 infest shoe-factories, and by reason of affording a much larger space than is necessary for the actual use of the individual workmen, so that they invite the accumulation of tools and
45 loose articles and completed work or finished shoes, which often become scratched or injured by the tools, nails, or other articles on the work-tables by being placed on the said tables instead of being placed on the racks or
50 other receptacles especially provided to receive them.

A table or bench embodying my invention consists of a flat horizontal plate of metal of proper size to hold the tools used by single workmen and supported from the floor by a
55 metal standard or legs, the table being of suitable height for a workman when standing on his feet. Such metal bench or table will preferably be provided with means for attaching a shoe-maker's jack, and will have a
60 raised edge or marginal flange to prevent the tools and other articles from falling from the edges thereof. For a table to be used by burnishers or other workmen requiring a heating device for their tools the table is provided
65 with an aperture, beneath which the burner may be placed, and preferably with a grating covering the aperture and tool supports or rests adjacent to said aperture. The table is
70 also preferably provided with one or more arms or brackets having rings or sockets to receive and hold pots of blacking, paste, or other articles used by shoe-makers.

In the accompanying drawings, illustrating my invention, Figure 1 is a side elevation of a shoe-maker's stand or table embodying the
75 same. Fig. 2 is a plan view of a stand or table. Fig. 3 is a detail section thereof, taken upon line 3 3 of Fig. 2.

As shown in said drawings, A indicates a
80 horizontal flat top plate of the table or stand, the same being made of metal, and preferably of cast-iron.

B is a single central post or standard for supporting the top plate, the same consisting,
85 as herein shown, of a piece of tube or gas-pipe secured at its upper end in a hub *a* on the bottom surface of the plate A and secured at its lower end in a socket *b*, forming part of a flat base B', which rests upon the
90 floor and is secured thereto by means of bolts or screws *b' b'*.

While I have shown and described the support for the top plate as consisting of a post or standard B, it will be obvious that instead
95 of the single post a number of metal legs may be used. These being equivalent constructions, it is not deemed necessary to illustrate the latter.

The plate A is preferably made rectangular
100 in shape, of somewhat greater length than width, and is provided with a raised edge or

marginal flange A' to prevent tools and other articles from falling therefrom. To the front side of the table is secured a flat vertical plate C, provided with bolt or screw holes c c, by which the shoe-maker's jack or the supporting-post therefor may be conveniently attached to the table.

The dotted lines at D indicate a shoe-maker's jack for supporting the last, and those at D' indicate a supporting-post for such jack, said post being attached at its lower end to the floor and secured at its upper end against the plate C by means of bolts or screws passing through the holes c c in said plate. The said plate C may be cast integrally with the top plate A of the table; but, as herein shown, said plate is formed by a separate piece of cast metal and is provided with a horizontal flange c', which extends beneath the table, and through which and the table are inserted bolts c² c² for securing the said plate to the table. The plate C is shown as located at the front edge of the table near the left-hand end thereof, and bolt-holes a' a' are shown as located near the right-hand end of the table for use in case it is desired to secure the jack at that place.

The table A is provided, preferably near its rear edge, with an opening A², beneath which is placed a gas-burner E, which is supplied by a pipe e. The tools to be heated may be allowed to rest upon the table with their parts which are to be heated over the hole or opening A². Preferably, however, raised supports a² a² are cast or otherwise secured upon the upper surface of the table at opposite sides of said opening A² for the purpose of conveniently sustaining the tools. A perforated guard or grating F is also preferably employed to cover the said opening A² in order to prevent articles on the table from falling through the said opening upon the burner.

G G are arms or brackets, which are shaped to form rings or sockets g g to receive pots or receptacles for blacking or paste or to hold other articles, as indicated in dotted lines in Fig. 1. Said arms or brackets may be made separate from the table and secured thereto in any suitable manner, but, as herein shown, are cast integral with the table.

The table or stand constructed as above described is adapted for use in lasting, heeling, trimming, finishing, burnishing, and, in fact, by all shoe-makers in a factory other than those requiring low benches. Lasting-jacks as commonly made rest upon the top of a heavy post, and such post will preferably be made of iron and secured at its upper end to the table by means of the plate C in substantially the same manner as the post D', which is shown in dotted lines in the drawings.

The table described, either when provided with a single supporting-standard, as shown, or when made with metal legs, has the advantage of being entirely fire-proof, of occupying much less room than the wooden benches

or tables heretofore used, and of being entirely free from vermin. In a shop fitted out with the metal tables described the work is greatly facilitated, for the reason that less room is occupied by the tables, the workmen are less in the way of each other, and an easy and quick access can be had to all parts of the room. Furthermore, the floor-space occupied by each table and the workman to whom it belongs is much less than is required in the use of long wooden tables or benches, so that more workmen than heretofore may be conveniently located in the same floor-space without undue crowding.

The employment of a metal table having a single central post or standard, together with a horizontal base-plate which is bolted to the floor, has the advantage of greater convenience to the workmen and of facilitating the sweeping or cleaning of the floor, and this form of table is therefore preferred, although not essential to the carrying out of the other features of my invention.

I claim as my invention—

1. As an improved article of manufacture, a shoe-maker's bench or table made entirely of metal and provided with a flat top plate having a raised edge or marginal flange and provided at its edge with a vertical plate adapted for the attachment of a shoe-maker's jack, and a metal standard attached to said top plate for supporting the same.

2. As an improved article of manufacture, a shoe-maker's bench or table made entirely of metal and provided with a flat top plate having a raised edge or marginal flange and provided at its edge with a vertical plate adapted for the attachment of a shoe-maker's jack, said flat top plate having also a hole or aperture through which the heat from a gas-burner or other heating device placed below the same is adapted to pass, and a metal standard attached to said top plate, substantially as described.

3. As an improved article of manufacture, a shoe-maker's bench or table made entirely of metal and provided with a flat top plate having a raised edge or marginal flange and provided at its edge with a vertical plate adapted for the attachment of a shoe-maker's jack, said flat top plate having also a hole or aperture through which the heat from a gas-burner or other heating device placed below the same is adapted to pass, said table being provided with elevated tool-supports adjacent to said hole or aperture, and a metal standard attached to the said top plate for supporting the same, substantially as described.

4. As an improved article of manufacture, a shoe-maker's bench or table made entirely of metal and having a flat top plate provided with a raised edge or marginal flange and provided at its edge with a vertical plate adapted for the attachment of a shoe-maker's jack, said flat top plate being provided also with a hole or aperture through which the

heat from a gas-burner or other heating device placed below the same is adapted to pass, said table being provided with a perforated guard or grating extending over said hole or
5 aperture, and a metal standard attached to said top plate for supporting the latter, substantially as described.

In testimony that I claim the foregoing as my invention I affix my signature in presence of two witnesses.

GEORGE W. LUDLOW.

Witnesses:

C. CLARENCE POOLE,
GEORGE W. HIGGINS, Jr.