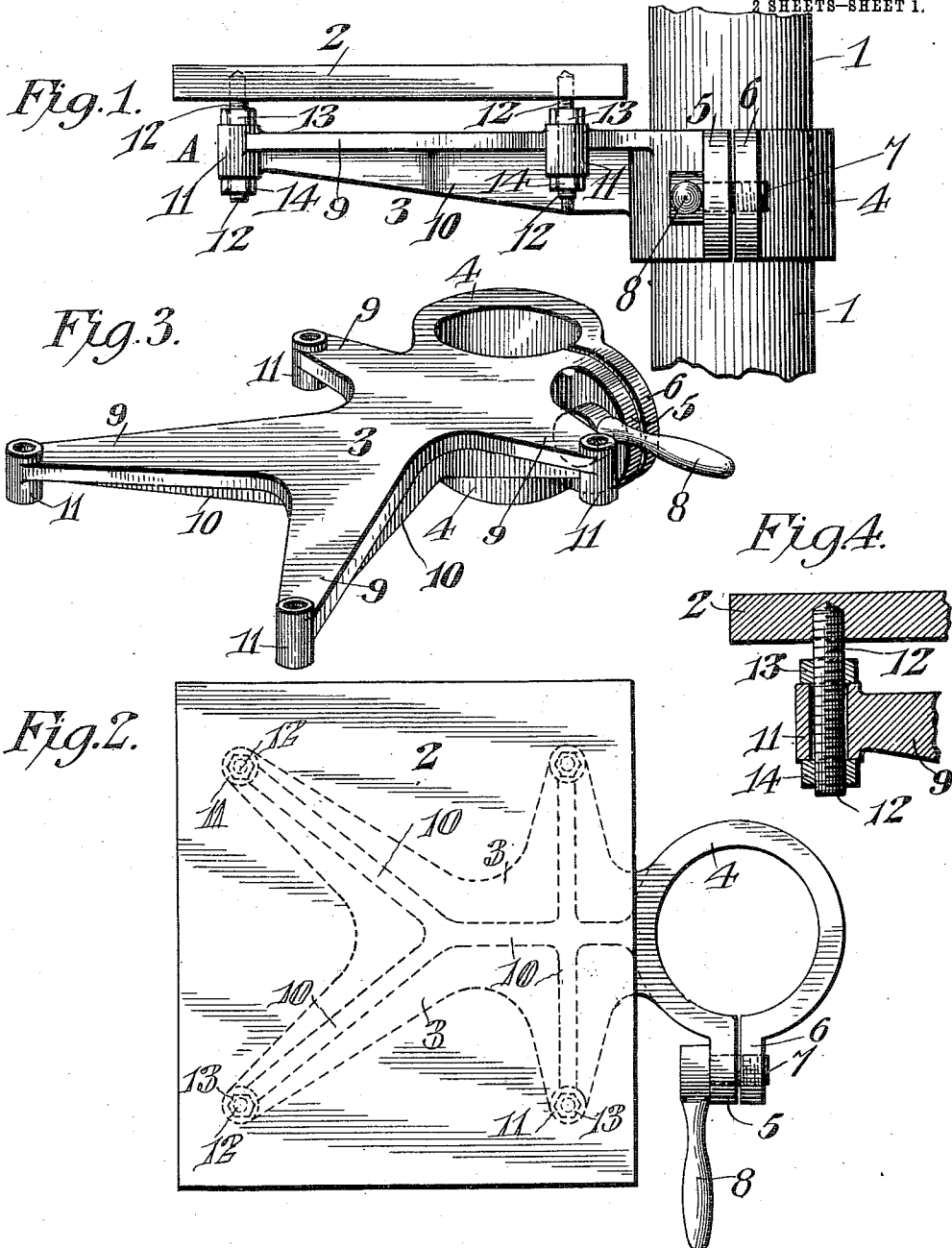


L. SMITH.
 DRILL PRESS TABLE.
 APPLICATION FILED JULY 12, 1909.

973,142.

Patented Oct. 18, 1910.

2 SHEETS—SHEET 1.



Witnesses
Jas. E. McEachran
C. Bradway.

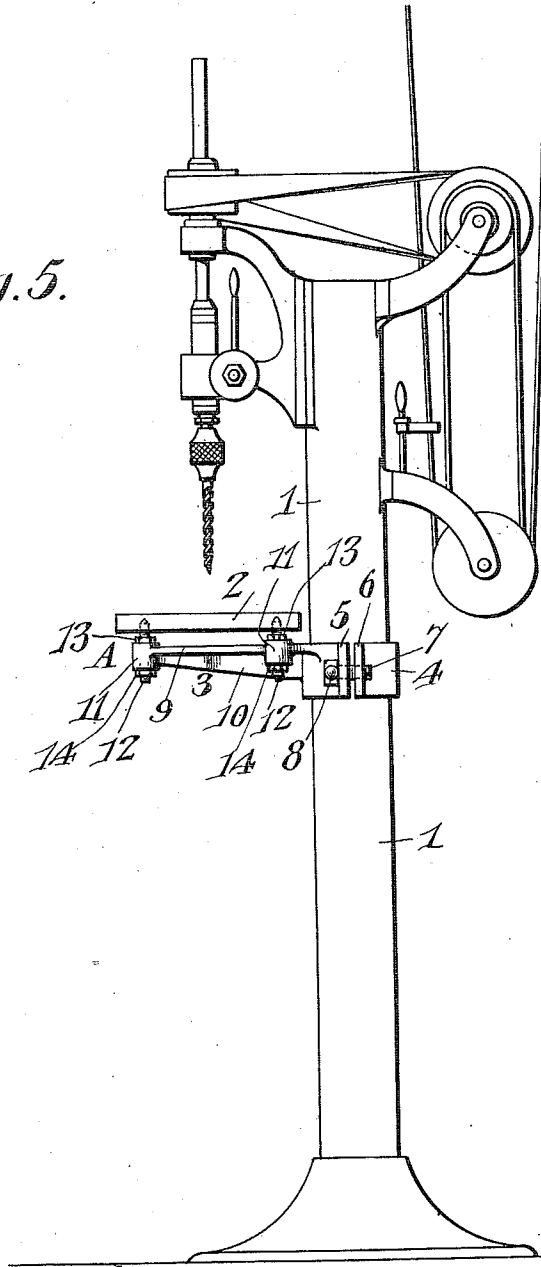
Louis Smith, Inventor
 By *E. J. Siggers*
 Attorney.

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Fig. 5.



Witnesses
Jas. E. McLaughlin
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Louis Smith, Inventor
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UNITED STATES PATENT OFFICE.

LOUIS SMITH, OF HARRISBURG, PENNSYLVANIA.

DRILL-PRESS TABLE.

973,142.

Specification of Letters Patent.

Patented Oct. 18, 1910.

Application filed July 12, 1909. Serial No. 507,134.

To all whom it may concern:

Be it known that I, LOUIS SMITH, a citizen of the United States, residing at Harrisburg, in the county of Dauphin and State of Pennsylvania, have invented a new and useful Drill-Press Table, of which the following is a specification.

This invention relates to a table or work holder intended for drill presses, although it is not necessarily limited to this particular use.

The invention has for one of its objects to provide an improved table or work holder which can be accurately adjusted so as to be at right angles to the drill-carrying spindle or stock of the drill press, so that absolute precision in the drilling of parts is rendered possible.

Another object of the invention is the provision of a bracket or spider adapted to be clamped on the column or standard of the press and which carries the plate of the table with adjusting means intermediate the bracket and plate for accurately leveling the latter.

With these objects in view and others, as will appear as the description proceeds, the invention comprises the various novel features of construction and arrangement of parts which will be more fully described in the claims appended hereto.

In the accompanying drawing, which illustrates one embodiment of the invention, Figure 1 is a side view of the improved table shown applied to a drill press column. Fig. 2 is a plan view of the table removed. Fig. 3 is a perspective view of the table bracket or spider. Fig. 4 is an enlarged sectional view of one of the table plate adjusting means. Fig. 5 is an elevation of a drill press equipped with my invention.

Similar reference characters are employed to designate corresponding parts throughout the views.

Referring to the drawing, 1 designates the column or standard of a drill press or equivalent machine which carries the table designated generally by A. This table comprises a flat plate 2 or work holder of any desired size which is carried by a bracket 3 adjustably secured to the column 1. This bracket is shown in the present instance in the form of a spider, but it is to be understood that it may be of any desired shape, and it is preferably, although not necessarily, a casting having a split ring or collar 4 at one side for

embracing the column 1, there being lugs 5 and 6 at the split of the collar so as to permit the latter to be expanded or contracted in unclamping or clamping the same with respect to the column 1. Passing through the lugs 5 and 6 is a tightening screw 7 which is threaded in the lug 6 but freely rotates in the lug 5, and on the screw is a handle 8 for manipulating the screw. The body portion of the bracket extends laterally from the collar or ring 4 and is provided with radiating horizontally-disposed arms 9 that are formed with reinforcing ribs 10 extending centrally of the arms and body portion of the bracket at the bottom thereof.

On the extremities of the arms 9 are vertically-disposed parallel tubular bearings or sleeves 11 so located as to be disposed under the table plate or work holder 2 adjacent the corners thereof to receive depending threaded members or studs 12 that are threaded in the table plate. On these studs are nuts 13 which rest upon the upper ends of the tubular bearings 11 and these nuts are adjusted so as to raise or lower the corners of the plate 2 so as to throw the top surface of the latter into a horizontal plane or at right angles to the axis of the drill-carrying spindle or stock of the press. On the lower ends of the studs are holding nuts 14 for securing the table on the bracket. By mounting the table or work holder in this manner, the same can be adjusted to the drill-carrying spindle in case the latter is found to be out of a perpendicular line with respect to the table, and is thus capable of being adjusted to compensate for wear from time to time, as occasion requires, this feature of adjustment being especially desirable in small size drill presses, sensitive drills and the like.

It will be readily seen that my device, while very simple in its construction, provides a support which may be readily clamped to the column of a drill press or like machine at any desired point of the same so as to accommodate work of greater or less volume upon the table or work holder mounted on the support, and that a plurality of supporting points are provided at different longitudinal and transverse planes of the support so that a very accurate adjustment of the work table may be obtained to maintain the work in proper position relative to the drill or other tool.

From the foregoing description, taken in

connection with the accompanying drawing, the advantages of the construction and of the method of operation will be readily apparent to those skilled in the art to which the invention appertains, and while I have described the principle of operation of the invention, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative, and that such changes may be made when desired as are within the scope of the claims appended hereto.

Having thus described the invention, what I claim as new, and desire to secure by Letters Patent, is:—

1. The combination with a drill press or like machine having a vertical supporting column and a tool, of a bracket projecting horizontally from the column and secured around the same at one end, a work holder disposed above the bracket beneath the tool, and a plurality of independent adjusting devices mounted in the bracket and engaging the under side of the work holder to constitute a plurality of spaced supports therefor.

2. The combination with a drill press or like machine having a vertical supporting column and a tool, of a bracket projecting horizontally from the column and terminat-

ing at one end in a split ring encircling and clamped to the said column, a plurality of spaced tubular bearings on the edges of the bracket, a flat plate-like work holder disposed above the bracket beneath the tool, studs secured in the work holder and depending therefrom through and out of contact with the said tubular bearings, and securing nuts mounted on said studs above and below the said tubular bearings adapted to be turned home against the same.

3. The combination with a drill press or like machine having a vertical column and a tool, of a spider-like bracket having outwardly-extending arms, the said bracket terminating at one end in a split ring secured around the column, a plate-like work holder disposed above the bracket beneath the tool, and adjustable supports in the ends of the outwardly-extending arms engaging the under side of the work holder at spaced points in different longitudinal and transverse planes thereof.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

LOUIS SMITH.

Witnesses:

GEO. S. ANDERSON,
W. P. KIRSTER.