P. J. CARPENTER, JR.

WORK BENCH.

APPLICATION FILED JUNE 18, 1913.

1,104,103.

Patented July 21, 1914

2 SHEETS—SHEET 1.

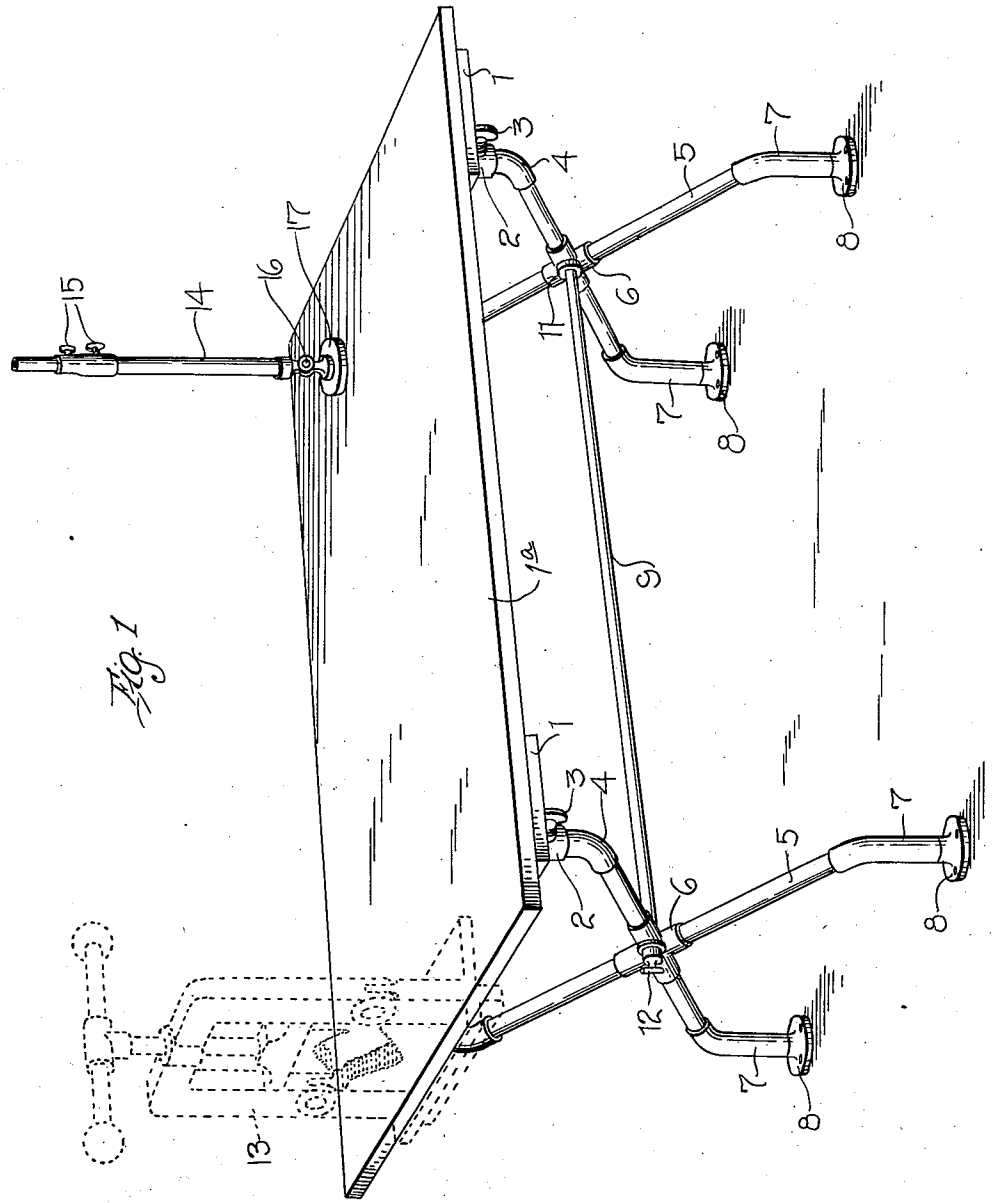


Fig. 1

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2 SHEETS—SHEET 2.

Fig. 2

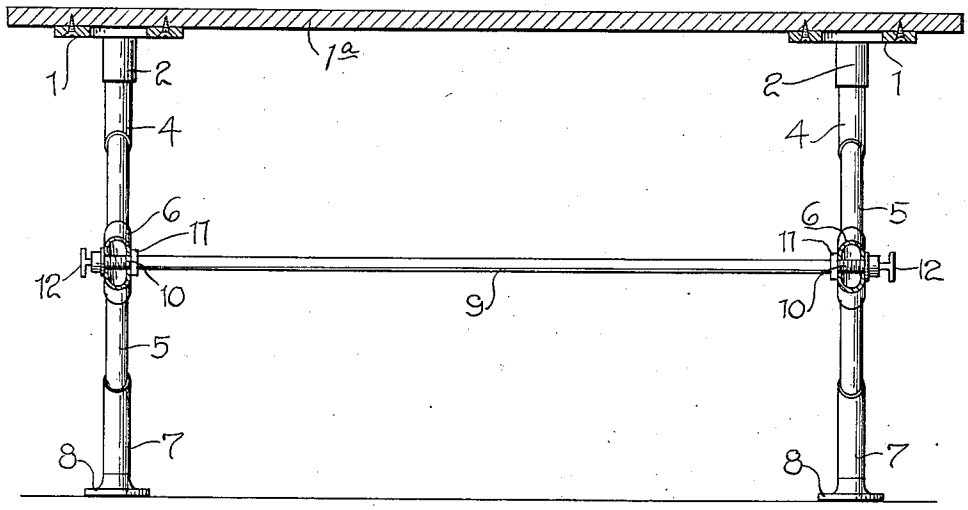


Fig. 6

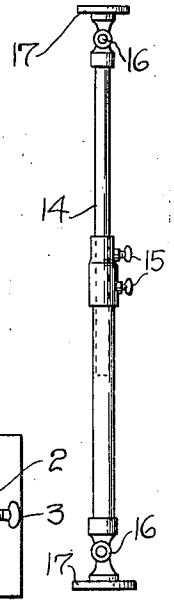


Fig. 3

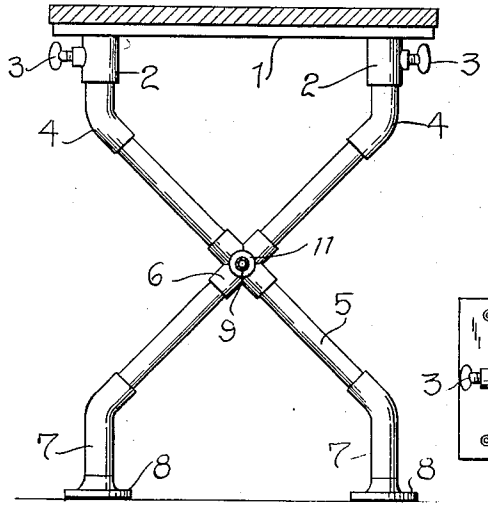


Fig. 4

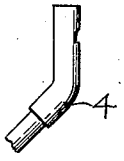
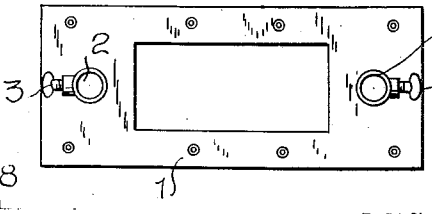


Fig. 5



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UNITED STATES PATENT OFFICE.

PETER JAMES CARPENTER, JR., OF DOBBS FERRY, NEW YORK.

WORK-BENCH.

1,104,103. Specification of Letters Patent. Patented July 21, 1914.

Application filed June 18, 1913. Serial No. 774,465.

To all whom it may concern:

Be it known that I, PETER JAMES CARPENTER, Jr., a citizen of the United States, residing at Dobbs Ferry, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Work-Benches, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to new and useful improvements in work benches and more particularly to a work bench for particular use in connection with plumbers' vises and the like and the primary object of the invention is to provide a device of this character which may be quickly and readily set up for use and taken down, when desired.

A further object of the invention resides in providing a work bench which is not alone capable of being set up and taken down quickly and readily, but which is capable of ready and quick adjustment to accommodate the work used in connection therewith, and a still further object resides in providing a device which is simple and durable in construction, inexpensive to manufacture and one which will be very efficient and useful in operation.

With these and other objects in view, the invention consists in the novel features of construction, combination and arrangement of parts as will be hereinafter referred to and more particularly pointed out in the specification and claim.

In the accompanying drawing forming a part of this application, Figure 1 is a perspective view of the device completely set up for use. Fig. 2 is a vertical longitudinal section through the same. Fig. 3 is a vertical transverse section through the same. Fig. 4 is a detailed elevation of a portion of one of the leg members used on the device. Fig. 5 is a bottom plan view of one of the plates to which the leg members are adjustably secured; and Fig. 6 is an elevation of the bracing device.

In describing my invention, I shall refer to the drawings in which similar reference characters designate corresponding parts throughout the several views and in which—

1ª indicates a board forming the top of my improved work bench, to the under face of which, adjacent the ends thereof are removably secured the plates 1, each of which is provided with a pair of sockets 2 and engaged with the sides of said sockets are the thumb screws 3. These plates may be of any desired size and shape, but are preferably rectangular and have portions of the same cut from the sections thereof so that when necessary, openings formed in the top 1ª may register with these openings. Secured in the sockets 2 by means of the set screws 3, are the pipe sections 4 which form portions of supporting legs for the top plate or bed 1, the lower ends of said sections being bent inwardly toward one another and threaded to receive in engagement the threaded ends of the crossed pipe sections 5. These crossed pipe sections are each formed of a pair of sections and a cross T 6 joins the same at the point of intersection. The lower ends of the crossed sections 5 are also threaded and engaged with the inwardly bent upper ends of the base sections 7. These base sections are provided with base flanges or feet 8 adapted to rest flatly on the ground. These various pipe sections together form supporting legs for the top or bed of the work bench and may obviously be adjusted to suit accommodation. It is also obvious that the parts may be readily and quickly removed or set up when desired.

A longitudinal bracing pipe 9 is provided, the ends of which are threaded, as shown at 10 and these threaded ends are adapted to be disposed through the cross T's 6 heretofore mentioned. Collars 11 are provided on the pipe 9 adjacent the threaded ends 10 to abut the inner opposed faces of the cross T's 6 and thumb nuts or the like 12 are also provided in engagement with said threaded ends 10 to engage the outer faces of said cross T's and through the medium of said collars 11 and nuts 12, it is obvious that the bracing rod which is preferably a pipe section, may be securely held to the supporting legs and capable of adjustment according to the size top used for the work bench.

In the drawing, I have shown a pipe vise 13 mounted on the top 1ª, adjacent one end thereof, inasmuch as this device is particularly adapted for use by plumbers. It will be understood, however, that this device is equally well adapted for other devices wherein work benches are desired. When the device is desired for use in connection with pipes of heavy design, I have provided a particular bracing means for the bench so as to relieve the latter of great strain. To this end, a bracing arm 14 is provided which is formed of telescoping sections which are

adjustably secured together by means of set screws 15. These telescoping sections are respectively engaged through the medium of the loose joints 16 to base pieces 17. The one base piece is adapted to be secured to the ceiling of a structure in which the bench is disposed and the other base piece secured to the top plate or table of the work bench. It is obvious that this bracing arm is capable of adjustment and it is also obvious that when applied to use, the same will relieve the work bench of any great strain.

From the foregoing description of the construction of my improved device, the operation thereof will be readily understood and it will be seen that I have provided a device which is simple and durable in construction, inexpensive to manufacture and one which will be very efficient and useful in operation.

While I have particularly described the elements best adapted to perform the functions set forth, it is obvious that various changes in form, proportion and in the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the principles of the invention.

Having thus described this invention, what is claimed is:—

A work bench of the class described comprising a top, plates secured to the under face thereof, adjacent the ends of the same, depending sockets formed on said plates, supporting legs comprising elbow pipe sections adjustably secured in said last mentioned sockets, angular base sections, a plurality of pipe sections removably engaged with said elbow and base sections, and cross T's removably engaged with the ends of said pipe sections, whereby to form substantially cross supporting members, and means engaged with the cross T's for bracing the supporting legs.

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

PETER JAMES CARPENTER, Jr.

Witnesses:

Thos. M. La Masuey,

Henry De Laututrath.