T. A. DE VILBISS.

PIVOTING MEANS FOR TABLES OR THE LIKE.

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1,093,038. Patented Apr. 14, 1914.

Fig. 1.

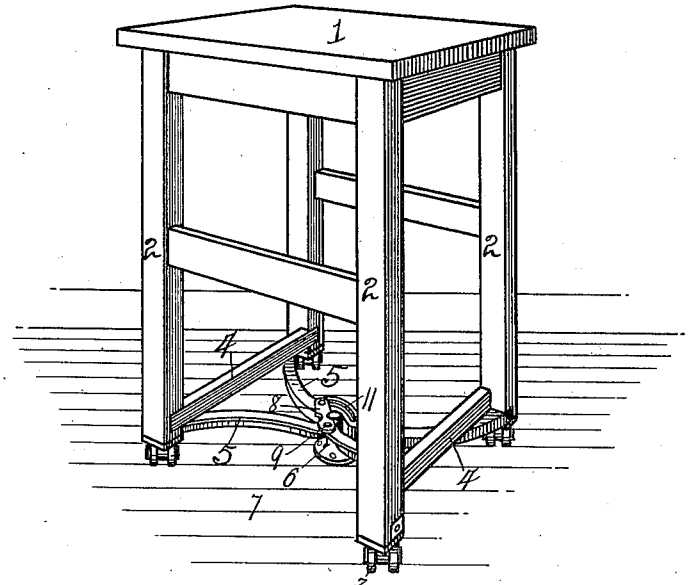
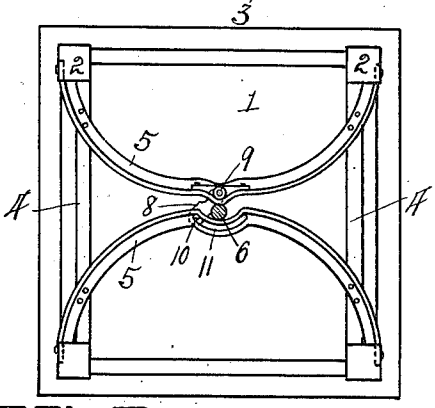


Fig. 2.



WITNESSES:

E. H. Wills.

E. E. Thomas.

INVENTOR.

Thomas A. DeVilbiss,

By Owen & Owen.

His attys.

UNITED STATES PATENT OFFICE.

THOMAS A. DE VILBISS, OF TOLEDO, OHIO, ASSIGNOR TO THE DE VILBISS MANUFACTURING COMPANY, OF TOLEDO, OHIO, A CORPORATION OF OHIO.

PIVOTING MEANS FOR TABLES OR THE LIKE.

1,093,038. Specification of Letters Patent. Patented Apr. 14, 1914.

Application filed February 10, 1913. Serial No. 747,450.

To all whom it may concern:

Be it known that I, THOMAS A. DE VILBISS, a citizen of the United States, and a resident of Toledo, in the county of Lucas and State of Ohio, have invented a certain new and useful Pivoting Means for Tables or the like; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this specification.

This invention relates to pivotal centering means for work supporting tables, or the like, and has for its object to provide simple and inexpensive means for use in connection with caster supported or wheeled tables to enable them to be moved into and out of centering engagement with a fixed pivot stud for turning movements in the manner of a turn-table with such stud as the pivotal axis.

The invention is fully described in the following specification, and while, in its broader aspect, it is capable of embodiment in numerous forms, a preferred embodiment thereof is illustrated in the accompanying drawings, in which,—

Figure 1 is a perspective view of a table and pivotal stud embodying the invention, and Fig. 2 is a bottom view of the table with the stud in section and in centering engagement with the centering means thereof.

Referring to the drawings, 1 designates an ordinary or any suitable form of work supporting table, which has its four legs 2 suitably braced and mounted on casters or other suitable roller-supports 3. Cross-pieces 4 rigidly connect the legs of opposite pairs adjacent to their lower ends, as shown, and serve to support the opposite ends of guide-bars 5, 5 comprising a part of the invention.

The guide-bars 5, 5 are of oppositely bowed form with their central portions disposed in adjacent spaced relation and with their adjacent ends coöperating to form broad or flaring openings, as shown. The bars 5 project at their ends under the cross-pieces 4, being secured thereto in any suitable manner, and are shown, in the present instance, as having their end terminals attached to the respective table legs. The bars 5, 5 are adapted to coöperate to form a double mouthed guide passage transversely of the table for receiving a pivotal stud 6 that fixedly rises from the floor or other subjacent support 7 on which the table is adapted to have rolling movements. The space between the converged or central portions of the guide-bars 5, 5 is of suitable width to permit the pivotal stud 6 to work freely therein from either end of the guide.

One of the guide-bars 5 has one end of a swinging stop finger 8 pivoted centrally thereto, as at 9, while the opposite end of such finger is provided with a stop-pin 10, which works in a segmental slot 11 in the central portion of the other guide-bar to limit the swinging movements of said finger. The finger 8 is intended to coact with the pivot-stud 6, when either side or mouth of the table guide is moved over the same, to stop the table when the pivot is in central position relative thereto, the swinging movements of the stop-finger being sufficient to enable the stud to stand in central position relative to the guide when entering either side of the guide. The central or contracted portion of the guide passage is shown as being curved in the arc of swinging movements of the finger, and the finger has its opposite edges notched at the points of contact therewith of the stud to reduce to a minimum the length of swinging movements of the finger when the pivot stud is in engagement with either side thereof and in central position relative to the guide.

The guide is particularly intended to meet the needs of manufacturing plants where articles are rolled on supporting tables from one place or room to another and where it is desirable to have substantially true pivotal movements of the table as the work carried thereby is being painted or otherwise acted on.

One of the principal uses of this invention is in connection with painting booths, as tables supporting work to be painted are rolled into the booths and then turned therein during the painting operation. During such operation it is quite important that the table turn freely about a pivot and in some places turn-tables upon which the work supporting table is placed are provided.

The purpose of the present invention is to obviate the use of turn-tables by the use of

guide means on a table for coöperating with a fixed pivot stud in holding a table for true pivotal movements.

It is obvious that with the use of my invention a table may be easily and quickly moved into centering engagement with a pivot stud, such stud entering either open end of the guide and centering therein by its coaction with the stop-finger. The table can then be freely turned about the pivot as the treatment of the work carried thereby may require.

I wish it understood that my invention is not limited to any specific construction or arrangement of the parts except in so far as such limitations are specified in the claims.

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

1. In combination, a wheeled table, a subjacent support therefor, a pivot stud carried by one and a double mouthed guide member carried by the other of said table and support, one for working in the other and coöperating to provide pivotal means for the table, and a pivoted finger associated with the guide member and adapted to coact with the stud to stop it in a predetermined position relative to the table when entering the guide member from either end thereof.

2. The combination with a table, of a pivot member fixedly rising from a subjacent surface over which the table is adapted to move, guide means attached to the lower portion of the table and forming a guide passage from one side to the other of the table for receiving said member, said passage having its ends broadened and having its central portion contracted to substantially the diameter of the pivot member, and a stop-finger pivotally carried by said means and adapted to coact with the pivot member to stop it in central position within the guide when entering from either end thereof.

In testimony whereof, I have hereunto signed my name to this specification in the presence of two subscribing witnesses.

THOMAS A. DE VILBISS.

Witnesses:
C. W. Owen,
S. T. Klotz.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."