Feb. 13, 1923.

1,445,516.

R. R. JONES.

STOOL CONSTRUCTION.

FILED FEB. 15, 1922.

Fig. 1.

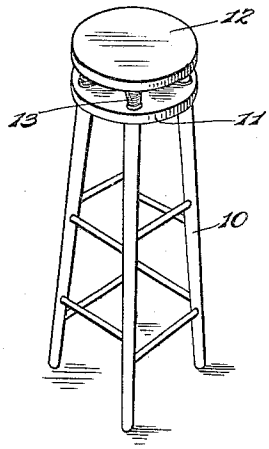


Fig. 5.



Fig. 3.

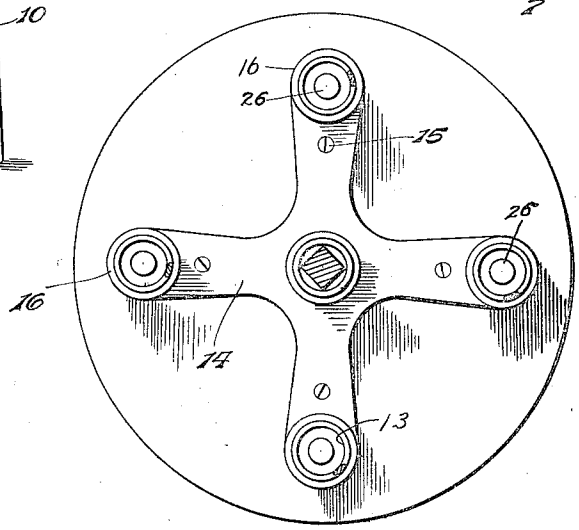


Fig. 2.

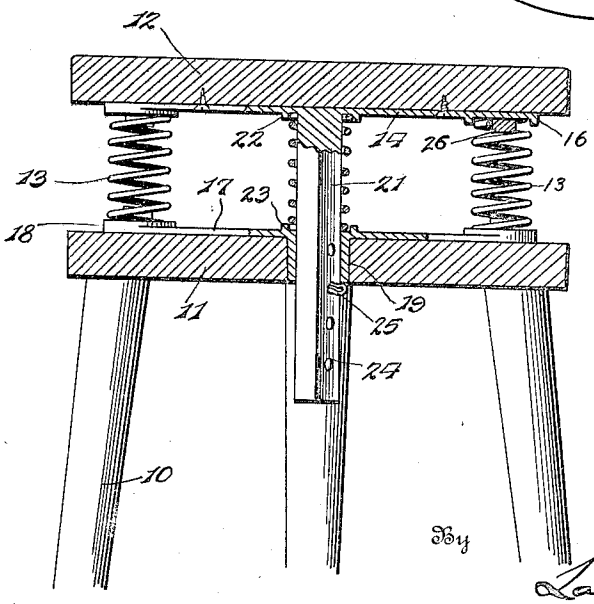
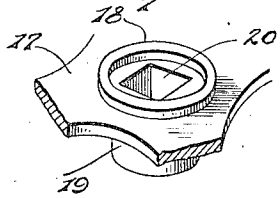


Fig. 4.



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By

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Patented Feb. 13, 1923. 1,445,516

UNITED STATES PATENT OFFICE.

ROBERT R. JONES, OF MASSILLON, OHIO.

STOOL CONSTRUCTION.

Application filed February 15, 1922. Serial No. 536,738.

To all whom it may concern:

Be it known that I, ROBERT R. JONES, a citizen of the United States, residing at Massillon, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Stool Constructions of which the following is a specification.

My invention relates to chairs and stools and more particularly to an improvement in the seats thereof.

The main object is to provide an elastic seat for stools and chairs and one that may be adjusted to suit different requirements.

One advantage of the invention resides in the fact, that this seat may not only be furnished on new stools or chairs, but that it may also be applied to existing ones, with only a slight alteration of the latter.

In the accompanying drawing one embodiment of the invention is illustrated; and

Figure 1 shows an office stool in perspective view with the improved seat attached;

Figure 2 is a fragmentary vertical section of Figure 1 in larger scale;

Figure 3 is a bottom plan view of the seat;

Figure 4 is a detail; and

Figure 5 is a fragmentary section of one of the details.

The stool is shown with four legs 10 with a fixed top 11 upon which the seat 12 is placed resting on five springs 13. On the under side of the seat 12 is provided a star-shaped bracket 14, which is secured by means of screws 15 thereto. At the end of each arm is provided a shallow socket 16, which is large enough to receive the end of one of the springs 13.

A similar bracket 17 is secured in the same manner on the upper side of the fixed top 11 and this bracket has also sockets 18 for receiving the lower ends of the springs 13. The lower bracket 17 has a central sleeve 19 projecting downwardly therefrom and this sleeve has preferably a square-section bore 20 to receive a central post 21, which is preferably made integral with the upper socket 14. One of the coil springs 13 is placed around this post 21 and rests in central sockets 22 and 23 provided respectively in the upper and lower brackets. The post 21 extends into the top 11 sufficiently to give a firm connection between the seat and the top and to guide the up and down movement of the seat with relation to the top 11. The post has a number of transverse holes 24 intended to receive a cotter pin 25 and these holes are spaced in order to vary the height of the seat 12 upon the top 11.

In Figure 5 is shown a small stud 26 inserted rigidly in each socket 16 or 18 of the brackets 14 and 17 and intended for providing an additional guide for the spring 13 as well as to form a stop in the downward movement of the seat 12 when in use. In this manner the springs 13 cannot be compressed solid and accordingly the life of the springs is increased.

Having thus described the invention what is claimed as new is:

1. In a chair, the combination with a fixed top; of a seat member, a bracket having radial arms secured under said seat member, a bracket having radial arms secured under said seat member, a similar bracket secured on the upper side of said top, said brackets being provided with opposing sockets arranged one centrally and the other sockets at the end of each arm, springs engaging in said sockets and adapted to support said seat member upon said top, a post of square cross section in said central socket and integral with said first bracket, a corresponding sleeve for the post in said second bracket, said post being provided with transverse apertures, a pin adapted to engage selectively with said apertures for adjustably retaining said post and said sleeve in engagement in opposition to said springs.

2. In a chair, the combination with a fixed top; of a seat member, a bracket having radial arms secured under said seat member, a similar bracket secured on the upper side of said top, said brackets being provided with opposing sockets arranged one centrally and the other sockets in the end of each arm, springs engaging in said sockets and adapted to support said seat member upon said top, a post of square cross section in said central socket and integral with said first bracket, a corresponding sleeve for the post in said second bracket, said post being provided with transverse

apertures, a pin adapted to engage selectively with said apertures for adjustably retaining said post and said sleeve in engagement in opposition to said springs, a stud rigidly secured in each of said other sockets adapted to limit the movement of said seat member in one direction, said stud and post constituting guides for said springs, and said post being surrounded by said spring inserted in the central sockets.

In testimony whereof I affix my signature.

ROBERT R. JONES. [L. S.]