J. A. JOHNSON.

SLIDING SHOE FOR FURNITURE.

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1,334,496.

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Fig. 1

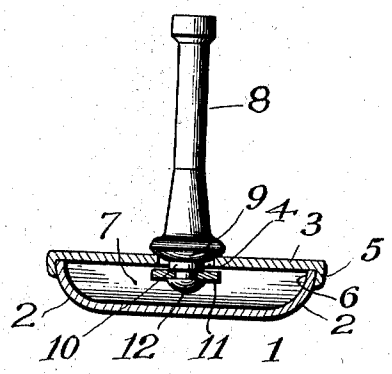
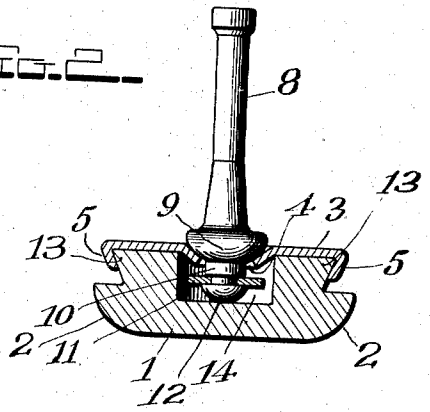


Fig. 2



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By

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UNITED STATES PATENT OFFICE.

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SLIDING SHOE FOR FURNITURE.

1,334,496. Specification of Letters Patent. Patented Mar. 23, 1920.

Application filed May 12, 1919. Serial No. 296,295.

To all whom it may concern:

Be it known that I, JOHN ADOLPH JOHNSON, a citizen of the United States, residing at the city of Meriden, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Sliding Shoes for Furniture; and I do 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.

This invention relates to sliding shoes for furniture but more particularly has reference to devices of this description in which the pintle inserted within the furniture leg has a rocking or oscillating connection with the shoe, the object being to preserve the flat contact of the shoe with the floor when the article of furniture is tilted or is moved over uneven floors or obstructions such as rugs and carpets.

The various features of novelty whereby this invention is characterized will hereinafter be pointed out with particularity in the claims; but, for a full understanding of the invention and of its objects and advantages reference may be had to the following detailed description taken in connection with the accompanying drawing, in which—

Figure 1 is a sectional elevation of the invention, showing the shoe made of a metal shell, and

Fig. 2 a similar view exemplifying the invention in connection with a shoe made of glass, porcelain, or earthen matter.

Similar numerals of reference denote like parts in both figures of the drawing.

Referring to Fig. 1, 1 is the shoe proper which has a flat base and is circular in shape, and has its outer edge curved upwardly as shown at 2. 3 is a cover plate formed with a central opening 4 and having its outer edge 5 interlocked with the outer upper edge 6 of the shoe.

This shoe is made from sheet metal by stamping it up in shape, so that it will be clear that when the cover plate is in position on the shoe a hollow interior portion 7 is inclosed between the plate and the shoe.

8 is the pintle by means of which the shoe is connected with a furniture leg. 9 is a rounded protuberance formed near the lower end of the pintle and seating directly on the plate 3 said protuberance having a diameter greater than that of the opening 4. 10 is a reduced extension of the pintle extending from the central part of the rounded portion through the opening 4 and spaced from the wall thereof, and 11 is a washer or plate surrounding a shouldered portion of the lower end of the pintle and secured by a head 12 formed by a riveting process.

This washer or plate 11 is confined by the shouldered portion of the pintle and by the head 12 in such a manner that it is spaced from the plate 3, and such washer or plate constitutes a head or enlargement at the lower end of the pintle which has a diameter greater than that of the opening 4, so that it will be readily understood that the pintle cannot be withdrawn from said opening while at the same time the rounded portion 9 is free to have a rocking or oscillating movement directly on top of the plate 3.

Referring to Fig. 2, the shoe 1 is made of glass, porcelain or any suitable composition, and is preferably formed with an undercut reduced portion 13 at the upper edge with which the outer edge of the cover plate 3 is interlocked.

In the instance of this particular shoe a hollow portion 14 is formed in the central part of the body of the shoe, and the plate around the opening 4 is depressed so as to form a concave seat for the protuberance 9, and the rounded headed part 12 at the lower extremity of the pintle contacts with the floor of this hollow portion, so that it will be clear that the pintle has a double rocking support which relieves the cover plate of more or less strain.

From the above description it will be noted that the pintle has a rocking portion which seats on top of the cover plate, and that the device itself has only four elements in its structure, thus affording a very simple and efficient device.

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

1. A sliding shoe for furniture, comprising a circular flat and hollow base portion having its outer edge curved upwardly, a cover plate having its outer edge interlocked with said base and provided with a central opening that leads into the hollow part of the base, a pintle whose lower end extends through said opening and is spaced from

the wall thereof, means for securing said end as against withdrawal from said opening, and a lateral enlargement at the base of said pintle above said plate and having a rocking seat thereon and extending beyond the confines of said opening.

2. A sliding shoe for furniture, comprising a flat bottomed hollow base having its edges curved upwardly and terminating at the upper plane of said base in an undercut, a cover plate having its periphery interlocked with said undercut and formed with a central opening leading into the hollow part of the base, a pintle having a rounded protuberance which is larger than said opening and seats on the upper face of said plate, a reduced extension at the lower end of the pintle immediately beyond said protuberance and which extends through said opening in spaced relation to the walls thereof, and a headed portion on the end of said pintle below the plate and spaced therefrom and larger than said opening, whereby a rocking connection is established between said pintle and plate.

3. A sliding shoe for furniture, comprising a flat bottomed hollow base having its edges curved upwardly and terminating at the upper plane of said base in an undercut, a cover plate having its periphery interlocked with said undercut and formed with a central concave seat that is provided with an opening and is depressed within the hollow part of the base, a pintle having a rounded protuberance which is larger than said opening and seats on said depressed portion of the plate, a reduced extension at the lower end of the pintle immediately beyond said protuberance and which extends through said opening in spaced relation to the walls thereof, and is rounded at its extremity and contacts with the floor of the base, and a headed portion on said reduced extension below the plate and spaced therefrom and larger than said opening, whereby rocking connections are established between said pintle and said plate and base.

4. In a sliding shoe for furniture, the combination of a hollow flat bottomed base having its edges curved upwardly, a cover plate having its periphery interlocked with the periphery of the base and formed with a central opening leading into the hollow portion of the base, a pintle having near its lower end an enlarged portion seated on the upper face of said plate and capable of a rocking motion, and a reduced lower extremity of the pintle extending through said opening and spaced therefrom and having a headed portion within the hollow part of the base and spaced from said plate to prevent the withdrawal of the pintle and to permit of the rocking movements thereof.

5. In a sliding shoe for furniture, a flat bottomed hollow base, a cover plate secured to the top of said base and extending thereover, said cover plate having a central opening, a pintle extending through said opening in spaced relation to the walls thereof and having a rounded protuberance which seats on the top face of the cover plate so as to roll thereon, and a headed portion on the pintle spaced below the plate to prevent withdrawal of the pintle relative to the plate and to allow of rolling of the protuberance on the plate.

6. In a sliding shoe for furniture, a flat bottomed hollow base, a cover plate secured to the top of said base and extending thereover, said cover plate having a central opening, a pintle extending through said opening in spaced relation to the walls thereof and having a rounded protuberance which seats on the top face of the cover plate so as to roll thereon a shoulder on the pintle spaced below the plate, and a washer on the pintle abutting the shoulder, the lower terminal of the pintle being upset so as to hold the washer against the shoulder.

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

JOHN ADOLPH JOHNSON.

Witnesses:
W. A. SCHENCK,
E. M. NOLD.