

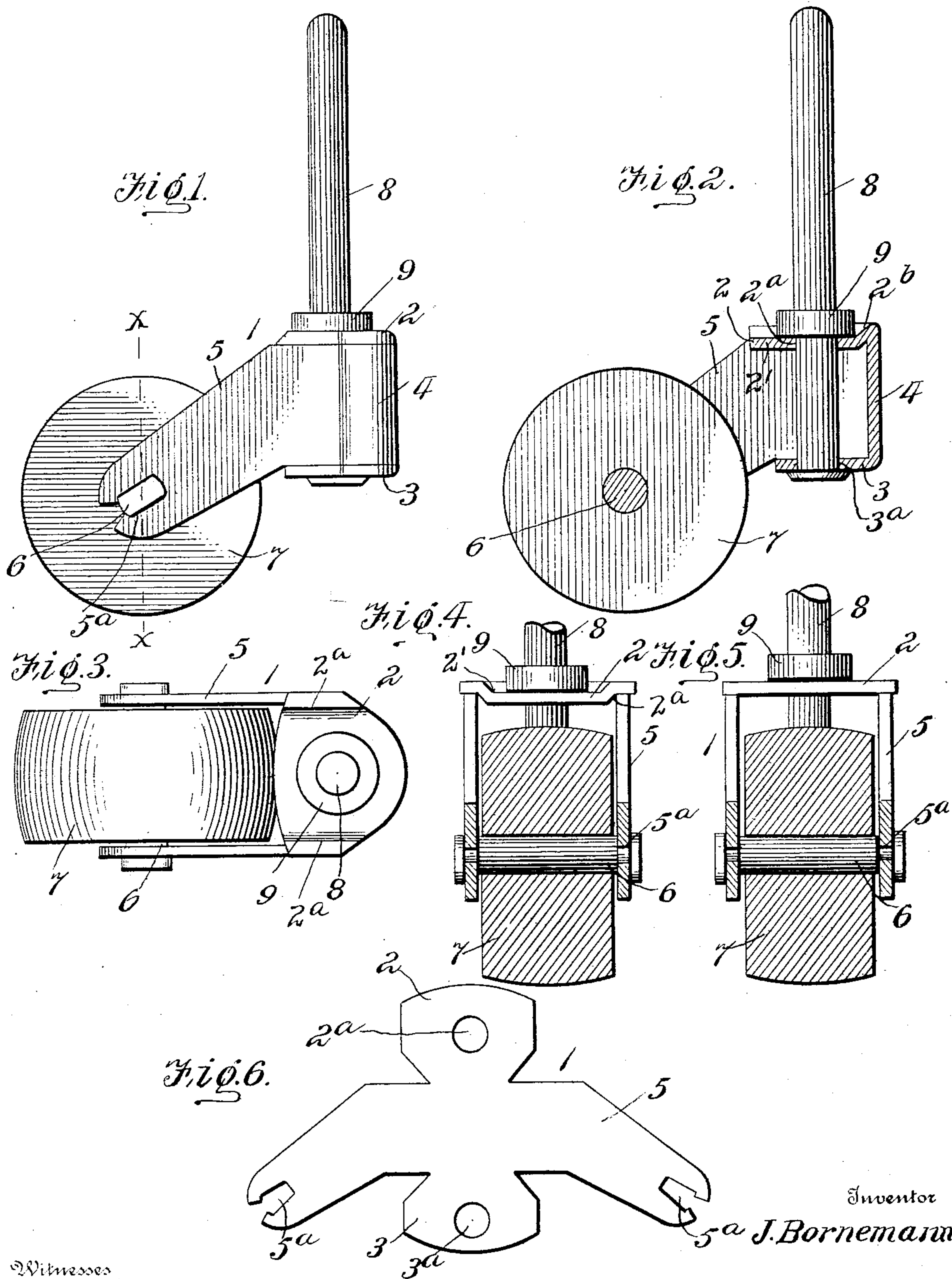
No. 750,799.

PATENTED FEB. 2, 1904.

J. BORNEMANN.
FURNITURE CASTER.

APPLICATION FILED FEB. 24, 1903.

NO MODEL.



Witnesses
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JOSEPH BORNEMANN, OF NEW YORK, N. Y.

FURNITURE-CASTER.

SPECIFICATION forming part of Letters Patent No. 750,799, dated February 2, 1904.

Application filed February 24, 1903. Serial No. 144,804. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH BORNEMANN, a subject of the Emperor of Germany, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Furniture-Casters; 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 improvements in casters for use upon furniture of various kinds, the object being to produce a caster consisting of but few parts, the main frame of which consists of an integral piece of metal formed from a blank stamped or cut from a die at one operation, the parts of the caster being quickly assembled and made ready for use, another object being to construct a caster which will be simple, strong, and durable, cheaply produced, and well adapted to the purpose for which it is designed.

With these and other objects in view the invention consists in the construction and arrangement of the parts, as will be hereinafter more fully described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of the caster complete. Fig. 2 is a vertical longitudinal sectional view. Fig. 3 is a top plan view. Figs. 4 and 5 are sectional views on the line *xx* of Fig. 1, showing different ways of forming the top plate of the caster; and Fig. 6 is a plan view of the blank from which the frame is formed.

In the drawings, 1 denotes the frame of the caster, formed, preferably, from a single piece of heavy sheet metal die cut to the proper form or configuration and pressed or bent into shape to form a substantially rectangular or box shaped body having a top 2, bottom 3, end 4, and side pieces 5, the said side pieces 5 extending downwardly at an incline and forming the horn of the caster, in which is adapted to be supported a shaft 6, carrying a revoluble caster-wheel or roller 7.

The caster-wheel 7 is adapted to turn upon the shaft 6, and the ends of the shaft are

squared to engage squared openings, forming seats 5^a in the lower ends of the sides 5, whereby said shaft is held against turning. The extreme ends of the shaft 6 after passing through or engaging the seats 5^a are headed to prevent withdrawal of the shaft or spreading of the side pieces.

8 denotes the stem or shank of the caster, consisting of a vertically-disposed cylindrical bar or rod, being formed near its lower end with an annular shoulder or boss 9. The lower end of the shank, or that portion below the boss 9, is adapted to pass through aligned circular openings 2^a and 3^a, formed in the top and bottom members of the frame, whereby the said frame is swiveled upon the shank, the extreme lower end of which is headed or upset to hold said parts in place.

The upper portion of the shank is adapted to enter the socket or hole formed in the lower end of the furniture-leg to which the caster is applied. The shoulder or boss 9 forms a stop upon which the end of the leg may rest, and also forms a bearing for the top of the caster-frame, enabling the same to freely turn upon the lower end of the shank.

The top plate 2 of the frame is preferably bent downwardly, as shown clearly in Figs. 2, 3, and 4, to form a depressed seat 2' for the shoulder 9 and also to form a shoulder or stop portion 2^a, adapted to be engaged by the sides of the caster-frame to strengthen the same and prevent them from bending inwardly. The downward bending of the top plate 2 not only forms the depressed seat 2' and the shoulder 2^a, but provides a corner angle or fold 2^b at the point of junction of the plate 2 with the rear wall 4, and this corner fold or angle serves to stiffen and strengthen the connection between these parts and cooperate with the side edges of the top plate resting on the side pieces 5 to hold the parts against bending or deflection. This feature is of prime importance, as it obviates the necessity of notching the parts to interlock them for the same purpose.

The advantages derived from a caster as herein described will be readily apparent, and from the foregoing description, taken in connection with the accompanying drawings,

the construction and arrangement of the parts will be understood.

Various changes in the form, proportion, and the minor details of construction may be
5 resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

A furniture-caster frame, consisting of top, bottom, end and side walls, and shaft-supporting arms, formed of a single piece of sheet metal, said side walls having straight
15 horizontal upper edges, and said top wall

having its side edges resting on said upper edges of the side walls and being depressed between said side walls to form a concaved seat, a reinforcing fold or angle and a shoulder against which the said side walls abut, 20 the said shoulder, side edges of the top plate and folds serving to stiffen the structure and prevent deflection thereof under strain, substantially as described.

In testimony whereof I have hereunto set my
hand in presence of two subscribing witnesses. 25

JOSEPH BORNEMANN.

Witnesses:

MERWIN DANIELS,
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