

(No Model.)

S. VANSTONE.

CASTER.

No. 277,522.

Patented May 15, 1883.

Fig. 1.

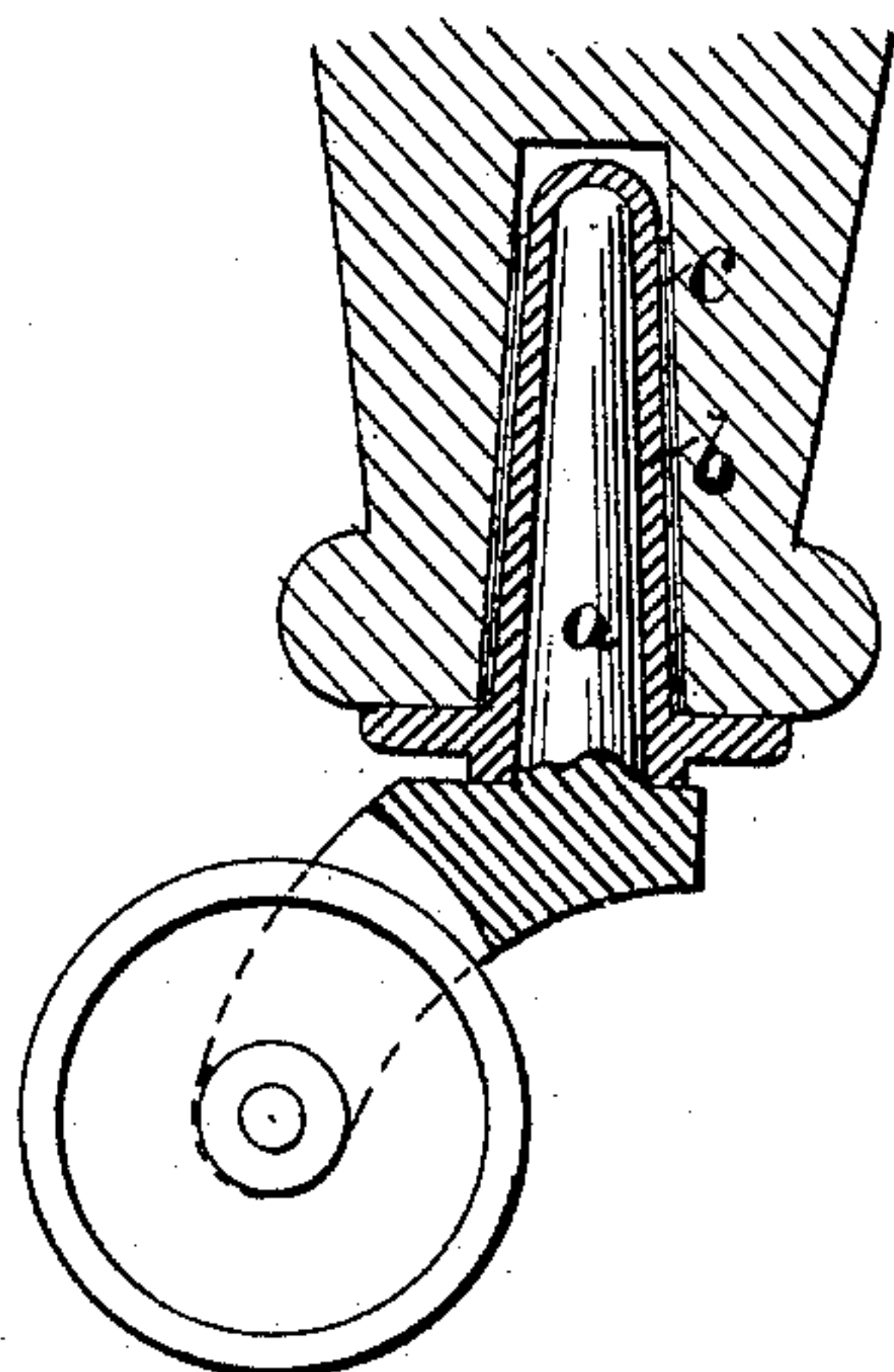


Fig. 2.

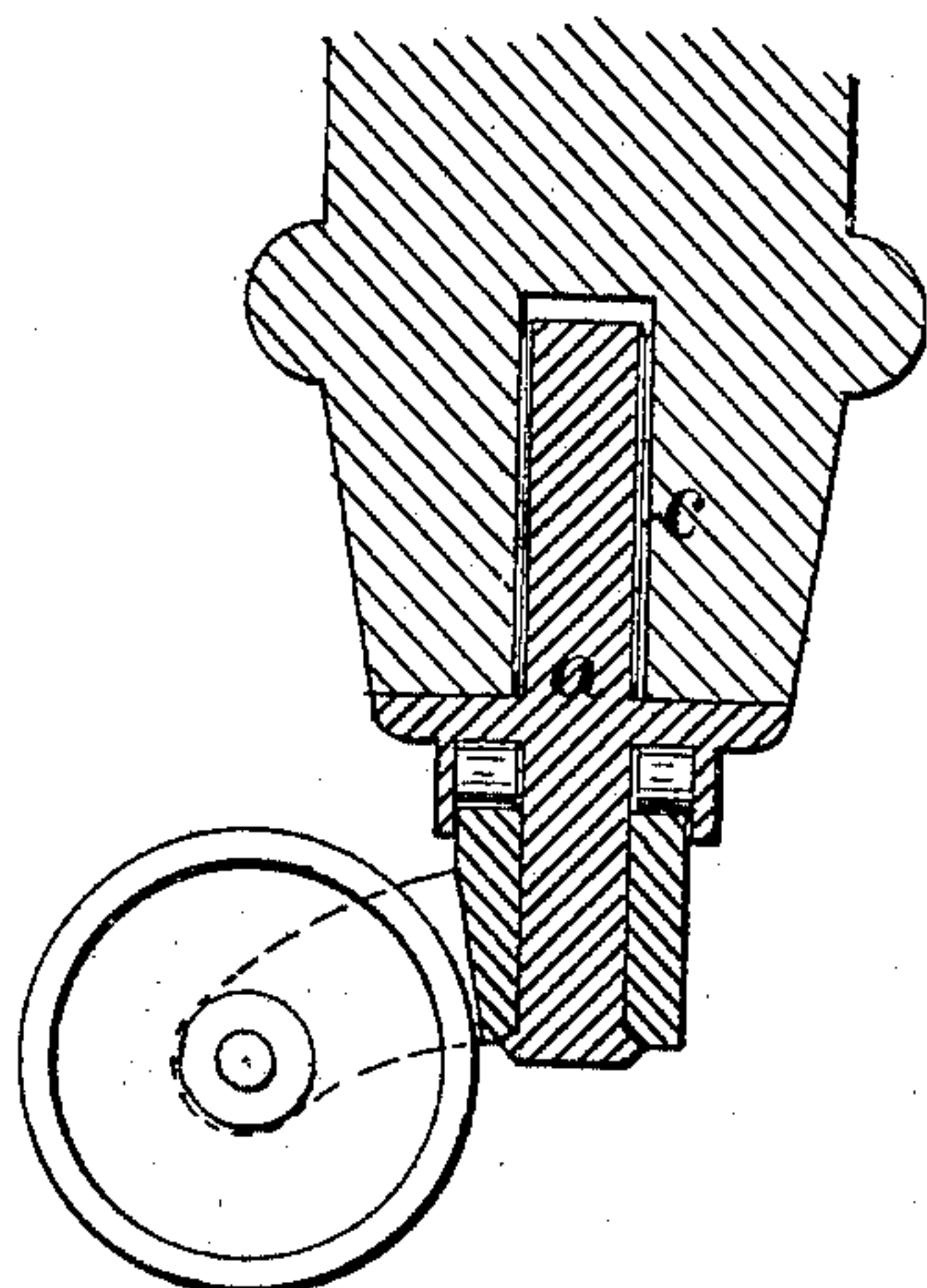


Fig. 3.

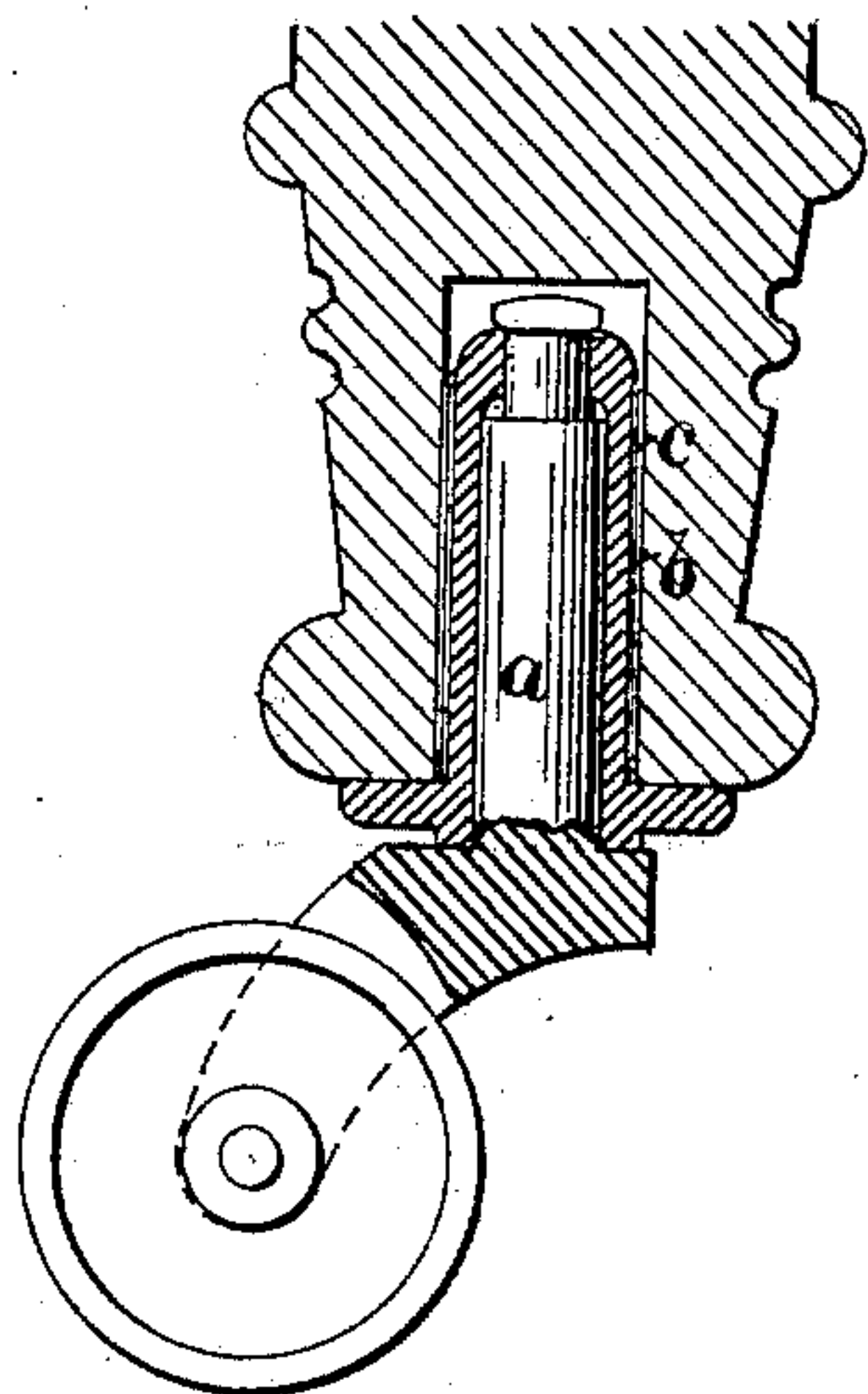
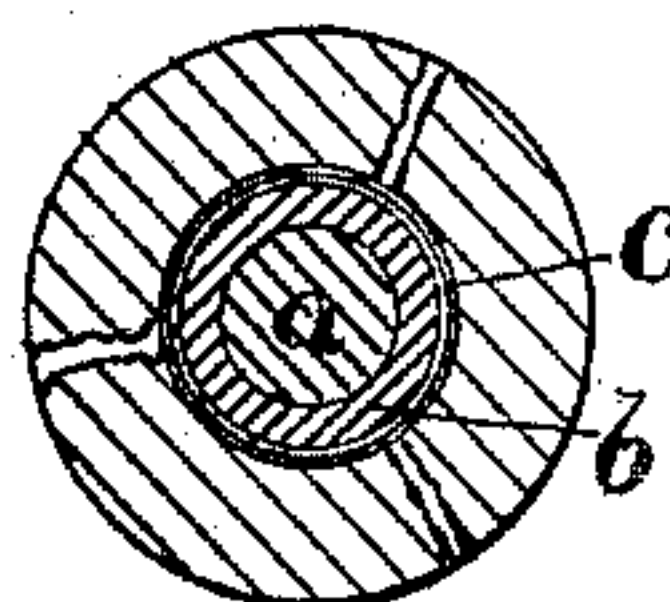


Fig. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

SAMUEL VANSTONE, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR OF ONE-
HALF TO CHARLES H. SAWYER, OF SAME PLACE.

CASTER.

SPECIFICATION forming part of Letters Patent No. 277,522, dated May 15, 1883.

Application filed February 21, 1883. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL VANSTONE, of the city and county of Providence, and State of Rhode Island, have invented a new and useful Improvement in Furniture-Casters; and I hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

10 This invention has reference to an improvement in furniture-casters; and it consists in securing to the spindle or the sleeve of a caster a tube of paper or similar material, surrounding the sleeve or spindle, so that the same may be
15 glued into the furniture, as will be more fully set forth hereinafter.

Furniture-casters have heretofore been secured to furniture by means of screws passing through the plate into the furniture, by providing the spindle or the sleeve with a screw-thread and screwing the same into the furniture, or by securing pieces of wood to the sleeve or spindle and gluing the same into a hole in the furniture. In all these cases the caster
25 became an element of weakness and destruction to the furniture, and more particularly in the legs of chairs and tables, where only a small amount of material surrounds the spindle or sleeve of the caster.

30 The object of this invention is to make the spindle or the sleeve of the caster an element of strength by firmly uniting the wood of the leg with the metallic sleeve or spindle around the whole surface, so that even a split leg of a chair or table will be strengthened by being
35 firmly glued to the cylindrical metal sleeve or spindle.

40 Figure 1 is a sectional view of a leg having the sleeve of a caster secured to it by gluing. Fig. 2 is a sectional view of a furniture-leg having the spindle of a caster firmly secured by gluing into the same. Fig. 3 is a sectional view of a furniture-leg having the sleeve of a caster secured within the same, and Fig. 4 is

a sectional view representing a split leg secured by gluing to the sleeve or spindle of a caster.

In the drawings, *a a* are the spindles of furniture-casters.

b b are the sleeves surrounding the spindle. 50

c c are bands or tubes, of paper or other similar material that will readily unite with the wood when glued. These bands or tubes are secured to the sleeve or spindle by cementation. Any of the well-known means may be
55 used for securing paper or similar material to metal, such as cleansing the metal with acids, washing, and then gluing a strip of paper around the same, or forcing a paper tube over the heated glue-covered metal spindle or tube. 60
The tube or spindle may also be roughened, so as to hold the paper more firmly; or the paper or other tube or band may be otherwise secured to the metal. A hole is now bored into the furniture, into which the spindle or
65 sleeve, with its paper band or tube, will tightly fit. The paper is covered with hot glue, and is forced into the hole; when dry all parts of the circumference of the hole will be firmly united to the paper, and by it to the metal 70
part of the caster, and the two form one united whole, firmly securing the caster and strengthening the leg or other part of the furniture in which the same is inserted.

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

A furniture-caster having the spindle or sleeve which enters the furniture surrounded with a tube made of stiffened paper, paste-board, or similar material, firmly secured to
80 the same, and constructed to be glued into the furniture, as described, as a new article of manufacture.

SAMUEL VANSTONE.

Witnesses:

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