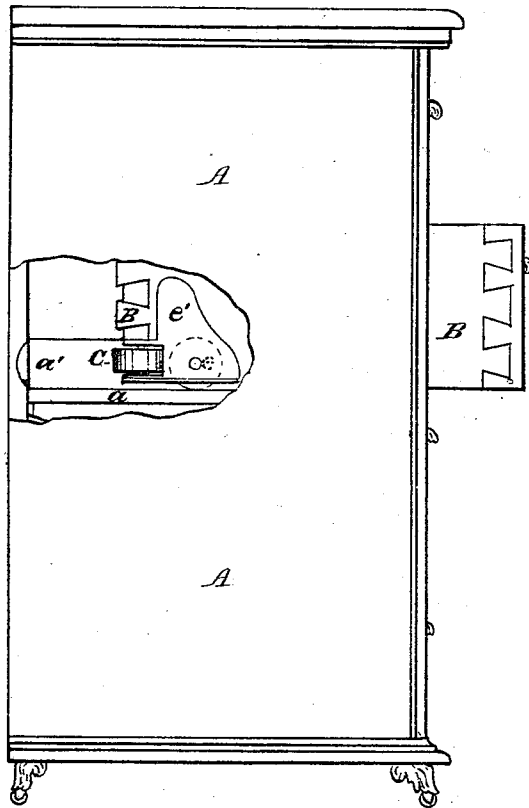


J. D. FREESE.

Anti-Friction Device for Furniture Drawers.

No. 167,161.

Patented Aug. 31, 1875.



WITNESSES

Frederick A. Herring
Conrad H. Willett

INVENTOR.

John D. Freese
By *Gidley & Warner*
attys

UNITED STATES PATENT OFFICE.

JOHN D. FREESE, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN ANTI-FRICTION DEVICES FOR FURNITURE-DRAWERS.

Specification forming part of Letters Patent No. **167,161**, dated August 31, 1875; application filed February 18, 1875.

To all whom it may concern :

Be it known that I, JOHN D. FREESE, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in an Anti-Friction Device or Caster for Drawers for Furniture, of which improvement the following is a full, clear, and exact description, which will enable others skilled in the art to which my invention appertains to apply the said improvement to use, reference being had to the accompanying drawing forming a part hereof, and in which the figure there shown represents a side elevation of a bureau or case of drawers, a part of the case being broken away so as to expose the part to which my invention is applied.

It is obvious that the drawers should be capable of being easily opened and closed, and hence that they must be somewhat smaller than the openings or recesses which receive them, and that they must ride freely on the ways on which they are supported. Allowance is also made for the tendency of the drawers and case to swell when exposed to the influence of a moist or damp atmosphere. It frequently happens, even when provision against dampness is made, that the wood will swell sufficiently to bind the drawers and prevent them from being moved with ease, if at all. In dry weather, or when the drawers are too small, they are liable, when canted or tilted laterally, (as frequently happens even when care is used to prevent tilting,) to become bound or crowded against the case or ways sufficiently to render it difficult to move them.

My object is to make a simple device especially adapted for attachment to drawers, and carrying anti-friction rollers arranged at right angles to each other, and so that the friction above referred to will be overcome by reason of the contact of the rollers with the case when the device is constructed and applied in the manner substantially as hereinafter specified.

In the drawing, A represents a case, and B a drawer arranged therein in the usual manner. *a* is a rail on which the drawer slides. *a'* is a side rail; the side rails, however, are not always employed, and are not essential, though preferable. The drawers may be prevented, by the sides of the case, from too great lateral movement. *e'* is a casting cast to receive the edge of the side pieces of the drawer, and adapted to be firmly and conveniently attached thereto. The casting *e'* is also cast to receive the anti-friction rollers C and *e*, arranged therein at right angles to each other. These rollers are also so arranged that the roller C will ride on the side rail or side of the case, and so that the roller *e* will ride on the rail *a*.

The device may be attached to the drawer in any convenient manner which will expose the perimeters of the rollers for contact with the fixed part of the case during the movement of the drawer.

The device is simple in construction and operation, and especially adapted to the purpose for which it is intended. It also forms a complete article ready to be applied to the uses set forth, and is especially serviceable to those engaged in the manufacture of furniture containing drawers.

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

As a new article of manufacture, an anti-friction device for drawers for furniture, the said device consisting of the casting *e'* cast for attachment to the drawer, and to receive the anti-friction rollers C and *e*, arranged therein at right angles to each other, and set for contact with the case when the device is applied to the drawer, substantially as specified.

JOHN D. FREESE.

Witnesses:

F. F. WARNER,
N. C. GRIDLEY.