

T. EUPHRAT.
WINDOW BLIND FASTENER.
APPLICATION FILED APR. 13, 1904.

Fig. 1.

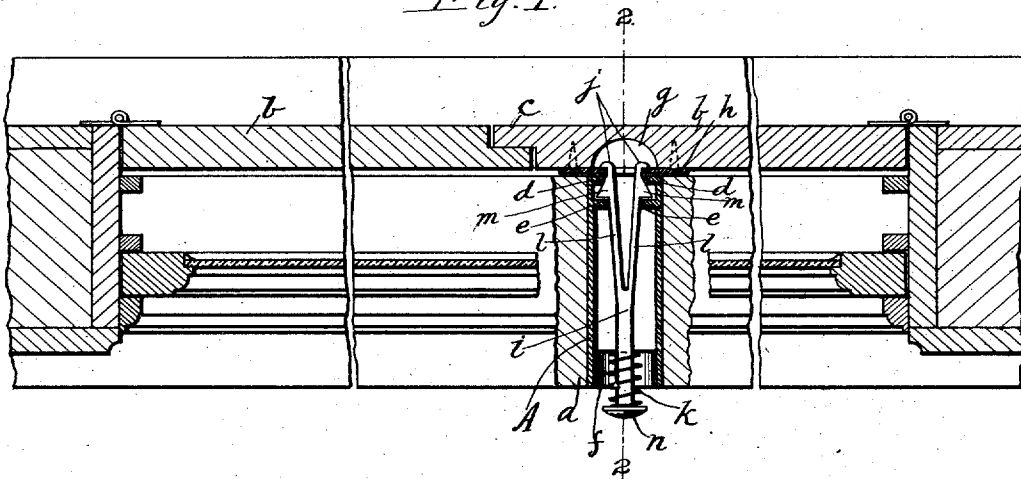


Fig. 2.

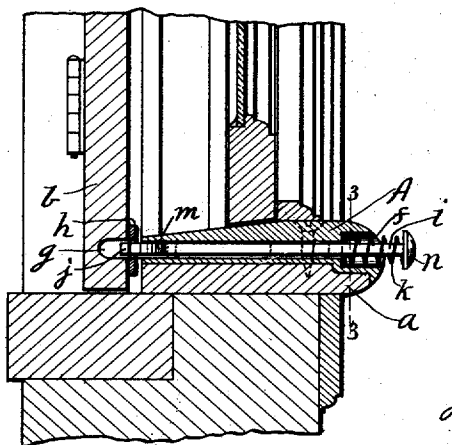


Fig. 3.

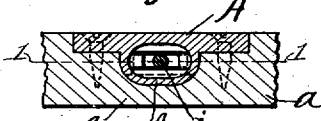


Fig. 7.

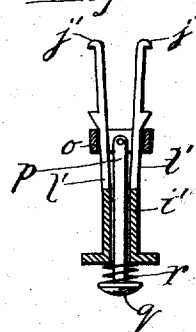


Fig. 5.

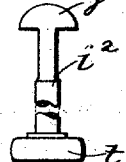


Fig. 4.

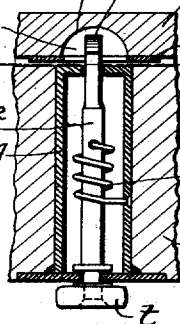
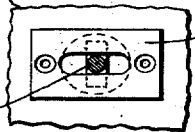


Fig. 6.



WITNESSES:

L. Olmquist
C. Sedgwick

INVENTOR

Thophile Euphrat
BY A. D. Thayer.
ATTORNEY

UNITED STATES PATENT OFFICE.

THEOPHILE EUPHRAT, OF NORWALK, CONNECTICUT, ASSIGNOR OF THREE-FOURTHS TO THE HURWOOD MANUFACTURING COMPANY, A CORPORATION OF CONNECTICUT, AND GEORGE J. TISCHER, OF NEW HAVEN, CONNECTICUT.

WINDOW-BLIND FASTENER.

SPECIFICATION forming part of Letters Patent No. 780,417, dated January 17, 1905.

Application filed April 13, 1904. Serial No. 202,895.

To all whom it may concern:

Be it known that I, THEOPHILE EUPHRAT, a citizen of the United States of America, and a resident of Norwalk, county of Fairfield, and State of Connecticut, have invented certain new and useful Improvements in Window-Blind Fasteners, of which the following is a specification.

My invention relates to means for fastening window-blinds in the closed position more securely, more conveniently, and more effectively against rattling by the wind when open, as hereinafter described, reference being made to the accompanying drawings, in which—

Figure 1 is a horizontal section of a window with closed blinds, illustrating the general construction of my improved blind-fastening. Fig. 2 is a vertical section on line 2 2 of Fig. 1. Fig. 3 is a detail in section on line 3 3 of Fig. 1. Fig. 4 is a section on line 1 1 of Fig. 3. Fig. 5 is an elevation of a modified form of fastening-bolt shown in Fig. 4. Fig. 6 is a section on line 6 6 of Fig. 4. Fig. 7 is a plan, partly in horizontal section, of a modification of the fastening-bolt.

A represents a tubular case placed on the upper surface, or, if preferred, embedded in the sill *a* of the window-frame transversely, with its outer end flush with the outer edge of said sill on that side of the central meeting line of the blinds *b* upon which the outer overlapping member *c* of the rabbet meeting-joint is. In this example of my invention said case extends through the sill *a* to the inside, and near the outer end it is fitted with internal shoulders *d* and stops *e*. A portion of the inner space of the case forms a socket *f*, in which is a spring *k* for retracting the hook described farther on.

The blind *c* has a recess *g*, which coincides with the outer open end of the case A when the blind is shut, which recess is covered by a slotted plate *h*, and a hook-bolt *i*, having hook-heads *j*, is arranged in the case A, with its hook-heads projecting so as to reach through the slotted plate and hook inside of it to hold

the blind closed, said bolt having a spring *k* applied in a manner to maintain the hooked connection and keep the blind closed. The hook-bolt and the spring may be contrived in various ways. In Fig. 1 I show a split bolt of springy material, whereof the separated parts have naturally expanding tension and being formed with hook ends *j* projecting in opposite directions and shaped suitably to be forced through the slot of plate *h*, and thereby be partly closed, open when through and engage the plate and fasten the blind. Inside of the mouth of the case A the said separated parts or jaws *l* have inclined fins *m*, which being thrust against the shoulders *n* close the jaws *l* and release the hook-heads *j* from the plate *h* when it is wanted to open the blinds, the hook-bolt *i* being for this purpose extended inward beyond the end of the case and the spring *k* being applied behind the head *n* of the bolt suitably to permit such thrust and to return the bolt to the normal position and to hold the blinds when engaged therewith against rattling.

The hook-heads, as *j'*, Fig. 7, may be formed on springy arms *l'* of a tubular and fixedly-placed bolt *i'*, suitably fixed in the case A, with a sliding yoke *o* suitably arranged on them to close and release them from the slotted plate *h*, with a push-rod *p* extending from said yoke beyond the inner end of the bolt and having a push-stud *q*, with a spring *r* between said push-stud and the end of the bolt for retracting the yoke and allowing the hooks to open and engage with said slotted plate, and a bolt, as *i''*, with a flat solid hook-head *j''*, may be employed with a spring *s* to normally hold the bolt with the head crosswise of the slot in the plate *h*, the bolt being shifted a quarter of a turn by the operator to pass the head through the slot when the bolt is to be engaged with or disengaged from the slotted plate *h*. In this case the knob *t* will have less projection inward.

What I claim as my invention is—

1. The combination with the window-sill and

the blinds, of a hook-headed bolt applied to the sill with its hook-head extended to reach into a recess of the blind when the blind is closed, a slotted catch-plate on the blind adapted for said hook-head to be inserted through it, spring means to normally cause said hook-bolt to assume a hooked engagement with said slotted plate when inserted through said slot and means for unhooking the bolt by the head of the stem extended inside of the window.

2. The combination with the window-sill and the blinds, of a hook-headed bolt applied to the sill with its hook-head extended to reach into a recess of the blind when the blind is closed, a slotted catch-plate on the blind adapted for said hook-head to be inserted through it, expanding spring-jaws carrying said hook-head and engaging said head with the catch-plate when inserted through it, and means for contracting said jaws to release them from said slotted plate, said means operated by the in-

strumentality of the stem of the bolt extended inside of the window.

3. The combination with the window-sill and the blinds, of a hook-headed sliding bolt applied to the sill with its hook-head extended to reach into a recess of the blind when the blind is closed, a slotted catch-plate on the blind adapted for said hook-head to be inserted through it, expanding spring-jaws carrying said hook-head and engaging said head with the catch-plate when inserted through it, inclines and shoulders for contracting and releasing the hook-head when thrust forward, and a spring for retracting the sliding bolt and engaging the hook-head with the slotted plate.

Signed at New York this 11th day of April, 1904.

THEOPHILE EUPHRAT.

Witnesses:

C. SEDGWICK,
J. M. HOWARD.

Corrections in Letters Patent No. 780,417.

It is hereby certified that in Letters Patent No. 780,417, granted January 17, 1905, upon the application of Theophile Euphrat, of Norwalk, Connecticut, for an improvement in "Window-Blind Fasteners," errors appear requiring the following correction, viz: In the grant and in the printed head of the specification it is stated that said applicant had assigned "three fourths to the Hurwood Manufacturing Company, a corporation of Connecticut, and George J. Tischer of New Haven, Conn.," whereas it should have been stated that said applicant had assigned *one half to the said The Hurwood Manufacturing Company and one fourth to the said George J. Tischer*; and that the said Letters Patent should be read with these corrections therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 14th day of February, A. D., 1905.

[SEAL.]

F. I. ALLEN,
Commissioner of Patents.

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