(No Model.)

E. KEMPSHALL.

SASH FASTENER.

No. 264,539. Patented Sept. 19, 1882.

Fig. 1.

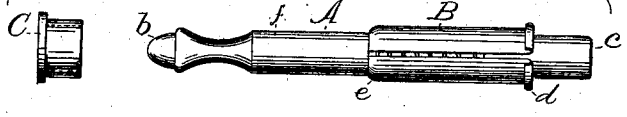
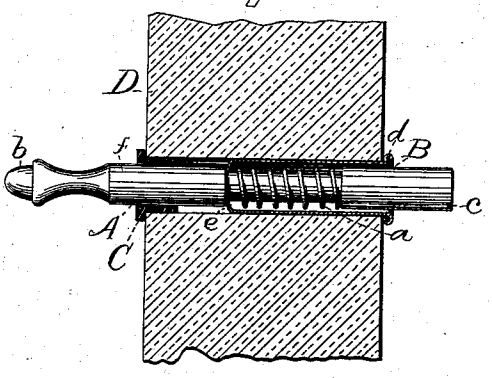


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

ELEAZER KEMPSHALL, OF NEW BRITAIN, CONNECTICUT.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 264,539, dated September 19, 1882.

Application filed August 7, 1882. (No model.)

To all whom it may concern:

Be it known that I, ELEAZER KEMPSHALL, of New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Sash-Fasteners, of which the following is a specification.

My invention relates to sash-fasteners in which a short cylindrical zinc case covers a part of the bolt near one end, and its surrounding spring, while at the part of the bolt which projects from the inner or small end of the case, is of full size for a length sufficient to form a bearing in a suitable bushing placed in the stile; and the objects of my invention are to make the fastener more efficient, tasty, and durable by taking the wear from the edge of the zinc case at the small end and transferring it to a bushing placed in the stile, also by shortening the case so as to make the inner end of the bolt of larger size, and, further, by adapting the parts to be so placed in the stile that no strain shall even come upon the reduced and weakest portion of the bolt. I attain these objects by the simple construction illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of my sash-fastener; and Fig. 2 is a vertical section of the same, partly in elevation, and showing also a portion of the sash-stile.

With certain exceptions, hereinafter specified, the bolt A, spring *a*, and case B are the same as those now in common use—that is to say, the bolt has a projecting handle, *b*, a projecting end, *c*, to engage the window-jamb, a reduced portion around which the spring is coiled, and a surrounding thin metal case, generally zinc, having a rolled flange, *d*, projecting from its large or outer end and an inwardly-turned flange, *e*, at its inner end. The case of my sash-fastener differs from the prior construction only by making it shorter, and the bolt differs from the prior construction by having the reduced portion farther from the handle *b* and leaving a straight part, *f*, between the case and the handle of the same diameter as the outer end, *c*, of the bolt, whereby it is adapted to form a bearing-surface at a point without the casing. In connection with this change of structure, I form a small bushing, C, whose inner diameter is of a proper size to receive and guide the part *f* of the bolt, and whose outer diameter is substantially the same as that of the case. A plain straight hole is bored through the stile D, and the case and bolt driven in at one end and the bushing C at the other end, as shown in Fig. 2. The bushing finishes the hole in the sash neatly, and, even in a narrow stile, the inner end of the case is not exposed to view. In lifting upon the handle the wear and strain comes upon the durable bushing, and not upon the thin and fragile edge of the metal at the inner end of the case. The straight part *f* is never wholly withdrawn from the bushing, and consequently no lifting strain can ever be brought to bear upon the reduced or spring-receiving portion of the bolt so as to bend or break the same.

I claim as my invention—

The sash-fastener having the bolt with the reduced portion, the spring, and the thin metal case near one end, and between the handle and inner end of said case the larger straight portion, *f*, of the bolt, which forms a bearing-surface, and the bushing to receive and support said portion *f*, substantially as described, and for the purpose specified.

ELEAZER KEMPSHALL.

Witnesses:

JAMES SHEPARD,

JOHN EDWARDS, Jr.