(No Model.)

F. W. WOOD.

SEAL.

No. 575,512. Patented Jan. 19, 1897.

Fig: 1.

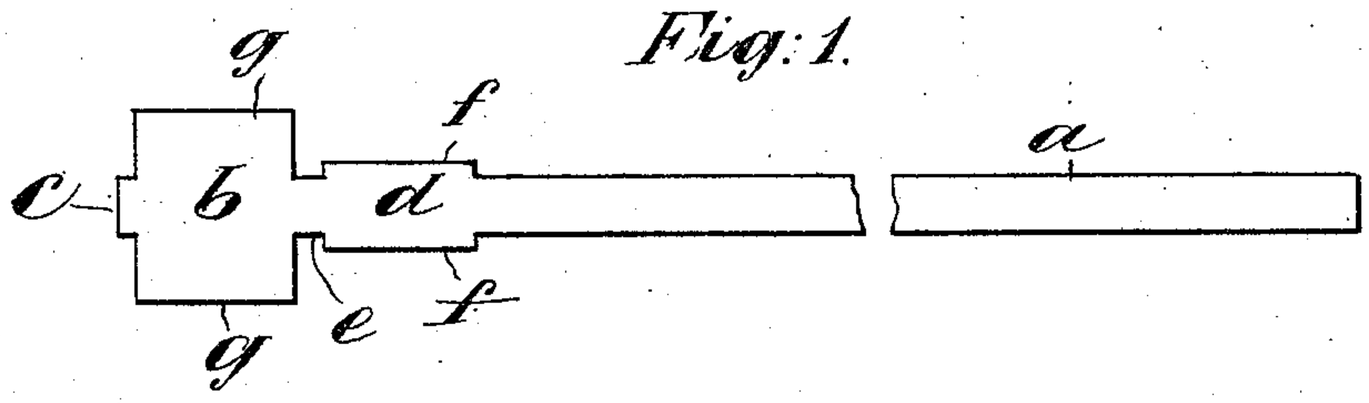

Fig: 2.

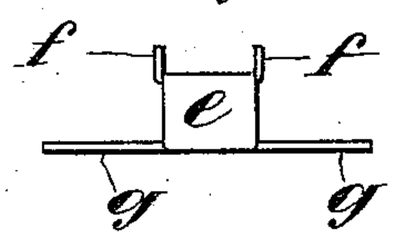

Fig: 3.

Fig: 4.

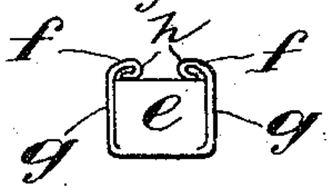

Fig: 5.

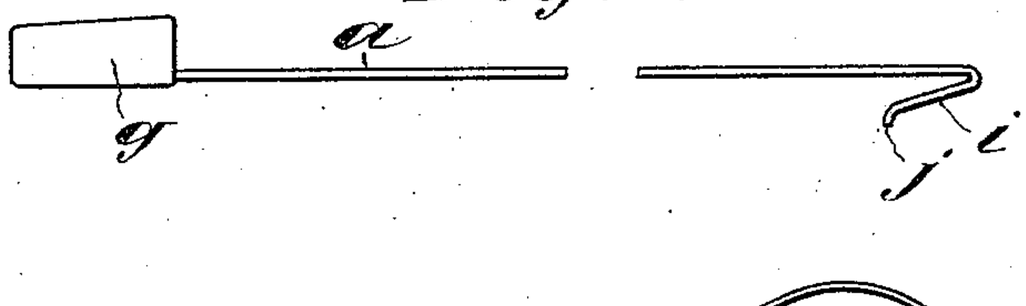

Fig: 6.

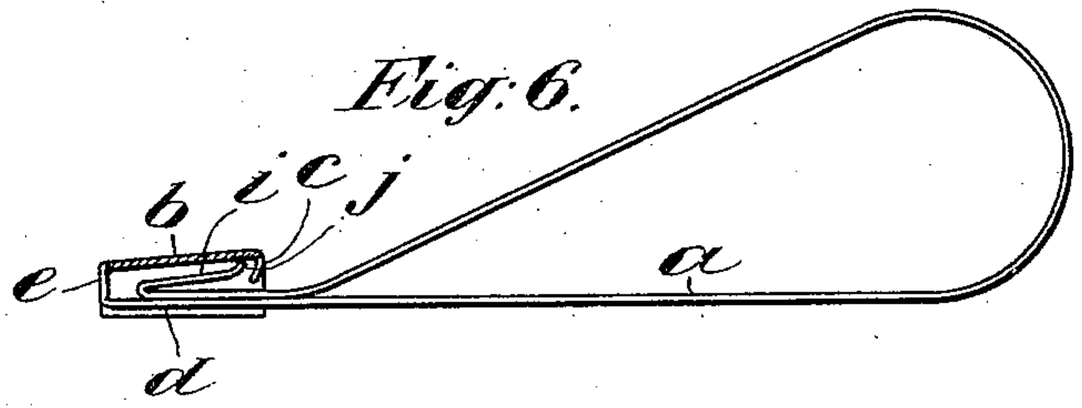

Fig: 7.

Witnesses:

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UNITED STATES PATENT OFFICE.

FRANK W. WOOD, OF NEW YORK, N. Y.

SEAL.

SPECIFICATION forming part of Letters Patent No. 575,512, dated January 19, 1897.

Application filed August 6, 1896. Serial No. 601,873. (No model.)

To all whom it may concern:

Be it known that I, FRANK W. WOOD, a citizen of the United States, and a resident of New York city, in the county and State of New York, have invented certain new and useful Improvements in Seals for Car and other Doors, of which the following is a specification.

My invention consists of an improved and efficient seal, preferably consisting of a single piece of sheet metal and contrived for more simple and reliable construction, as hereinafter fully described, reference being made to the accompanying drawings, in which—

Figure 1 is a plan view of the blank of which the seal is made. Fig. 2 is an end elevation of the partly-folded blank. Fig. 3 is an end elevation of the blank, showing an additional step of the folding. Fig. 4 is an end elevation of the finished seal. Fig. 5 is a side elevation of the seal in complete form. Fig. 6 is a side elevation with the seal complete and locked with the box in section. Fig. 7 is an end elevation of the complete seal as it may be made with some of the elements of the other figures omitted. Figs. 2, 3, 4, and 7 are drawn to a larger scale than the rest.

The blank consists of a strip *a*, of tin, which is of uniform width for the most part of its length, but having a wider section *b* near one end, which projects, in Fig. 1 at *c*, a short distance beyond said wider section, and it has another section *d* wider than itself, but much narrower than the section *b*, these two sections *b* and *d* being separated by a short section *e* of like width as the principal portion of the strip.

The section *b* is looped back over the section *d* and the extremity *c* bent to form a hook, as shown in Fig. 6, the margins or lips *f* of section *b* are bent upward, as in Figs. 2 and 3, and the lips *g* of the wider section *b* are bent upward at the sides of lips *f*, as in Fig. 3, and then they are turned over in the seams *h*, Fig. 4, whereby the narrow lips *f* engage the wider lips *g*, forming the sides of a box, so as to hold them so securely that the box cannot be restored after opening without showing indications of unauthorized tampering.

The hook *i* is formed on the other end of the strip, preferably with the lip *j*, and the strip is doubled on itself, as in Fig. 6, to connect in a staple or the like, and the hook *i* is forced in the box under the hook *c* for sealing, from which it cannot be withdrawn without such damage as will prevent further use of the seal without detection.

The entire seal thus consists of a single piece of sheet metal and is substantially made very simply and without riveting or soldering.

The lips *f* may be dispensed with, the lips *g* being folded down flat on the surface of section *d*, as in Fig. 7, if desired, but the seal is more substantial and reliable with said lips *f*.

I am aware of the Patent No. 286,514, in which there is a single lap of one edge of the strip which is bent over the interlocking parts, but having such width as renders it comparatively easy to be bent back so as to release the hooks, and I make no claim to such a device. My invention is distinguished from that in having a substantial hook-receiving box secured by short strong lips turned over from both sides and comprising distinctive sides intermediate of the top and bottom, affording space for receiving the hook without slacking and not requiring compression afterward, the hook being effectually secured merely by inserting it in the box, and the box having, by reason of this construction, ample self-sustaining strength without either riveting or soldering, as in the case of some seals made of thin sheet metal, and also being of such rigid and unyielding construction as to prevent being opened and closed again for reuse without showing conspicuous evidence thereof.

I claim—

1. The improved seal consisting of the metallic strip having the hook at one end and the hook-engaging box at the other end, said box formed of the wide section doubled back on the strip with its lips consisting of portions of its lateral extensions folded over both edges and on the surface of the imperforate back of the portion of the strip over which the said wide section is folded, and said box having an opening in one end adapted to admit the hooked end of the strip and containing a hook for engaging said hooked end of the strip substantially as described.

2. The improved seal consisting of the metallic strip having the hook at one end, and

the hook-engaging box at the other end, said box formed of the wide section produced by extension of both edges of the strip and doubled back over the strip with its lips folded over each edge of the imperforate back of the strip and on the surface of the said back, and having an opening adapted to admit the hooked end of the strip, and the extension of the strip beyond said wide section forming the short rigid box-hook to engage the inserted hooked end of the strip substantially as described.

3. The improved seal consisting of the metallic strip having the hook at one end, and the hook-engaging box at the other end, said box formed by doubling the section *b*, having the lips *g g*, over the section *d* and having lips *f f*, said lips *f f* and *g g* being bent upward and then turned over to form the seams *h h*, and said box having an opening adapted to admit the hooked end of the strip, and the extension of the strip beyond the wide section forming the short rigid hook to engage the hooked end of the strip substantially as described.

Signed at New York city, in the county and State of New York, this 1st day of August, A. D. 1896.

FRANK W. WOOD.

Witnesses:
A. P. THAYER,
W. J. MORGAN.