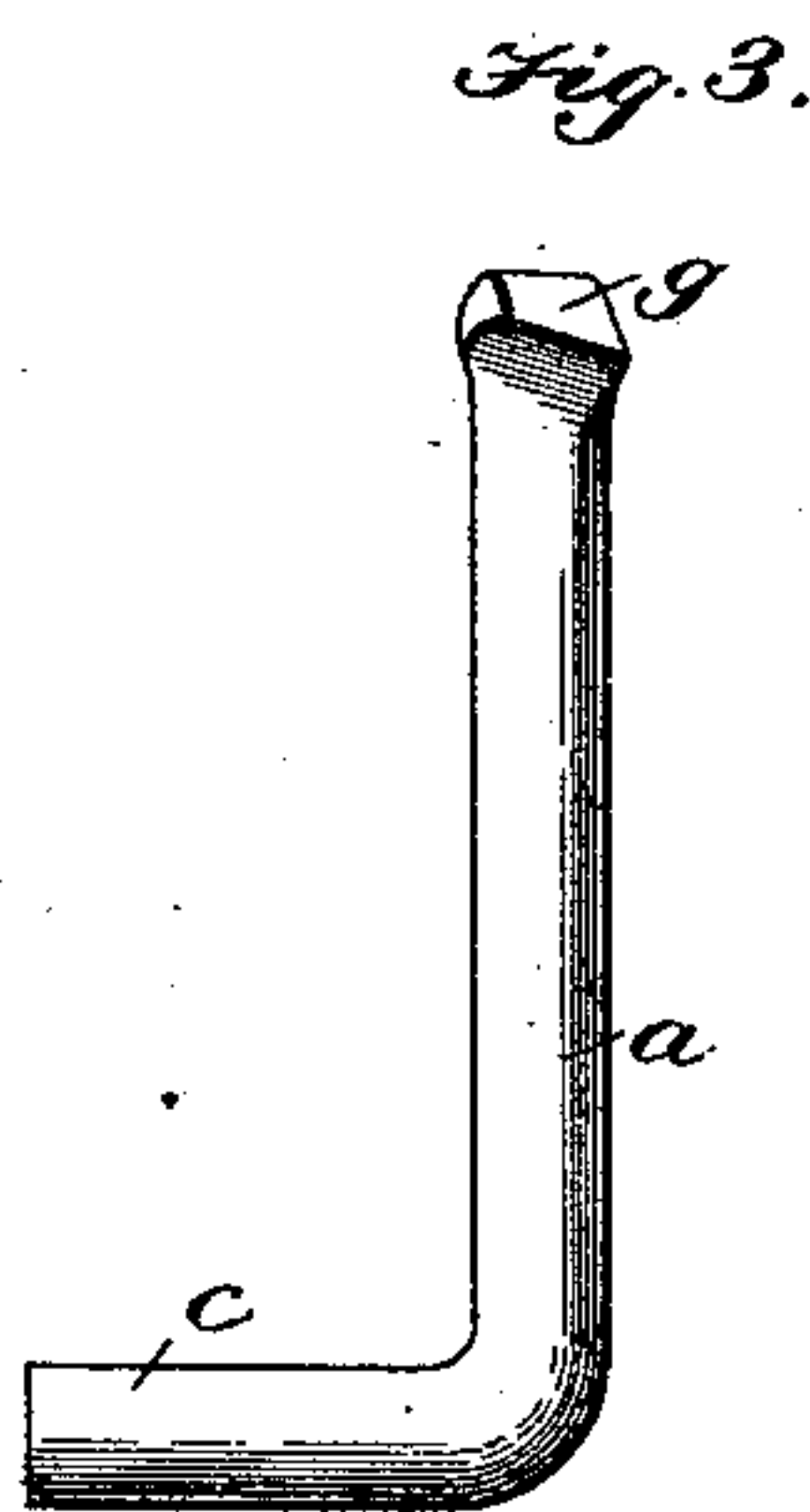
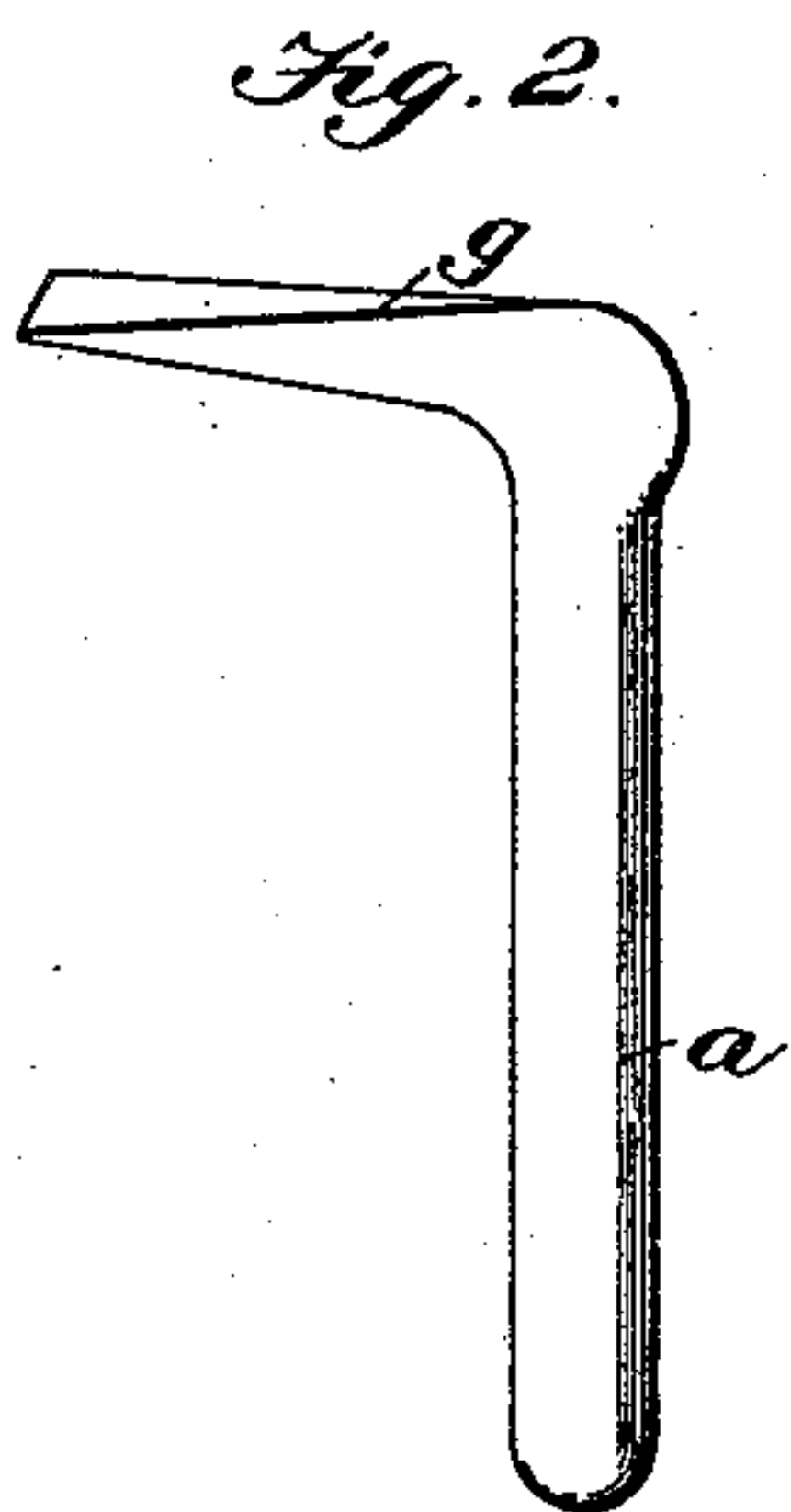
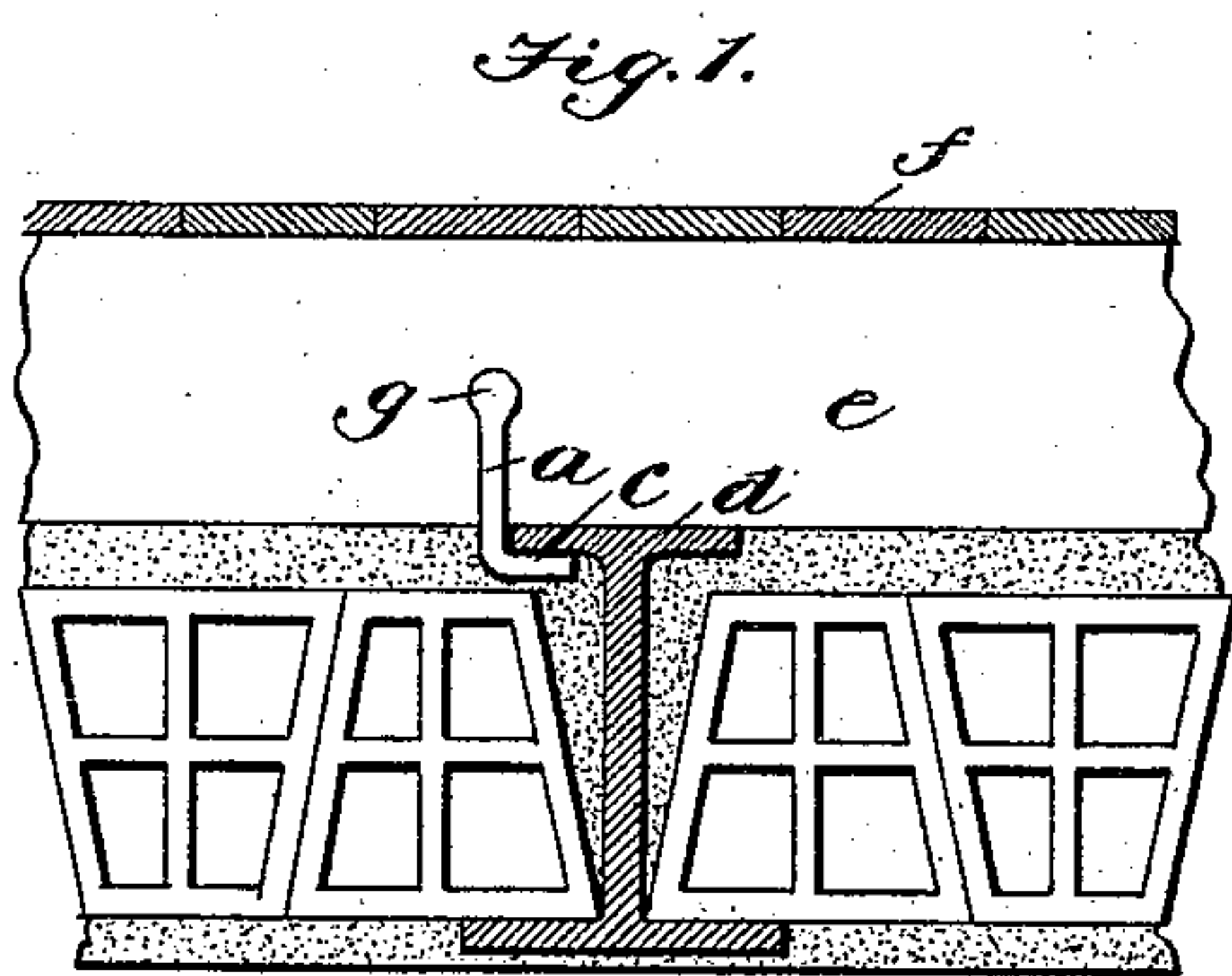


(No Model.)

G. MICHAUD.  
SLEEPER CLAMP.

No. 466,308.

Patented Dec. 29, 1891.



Witnesses  
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# UNITED STATES PATENT OFFICE.

GILBERT MICHAUD, OF NEW YORK, N. Y.

## SLEEPER-CLAMP.

SPECIFICATION forming part of Letters Patent No. 466,308, dated December 29, 1891.

Application filed August 8, 1891. Serial No. 402,165. (No model.)

*To all whom it may concern:*

Be it known that I, GILBERT MICHAUD, a citizen of the United States, residing in the city of New York, in the county and State of New York, have invented certain new and useful Improvements in Sleeper-Clamps; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

In the construction of what are called "fire-proof" buildings it is well known that iron beams are used to support the floors. Across these iron beams are laid planks, which are usually called "sleepers," and upon the sleepers are fastened the floor-boards. It has long been found that difficulty exists to fasten the sleepers to the beams in an efficacious and economical way.

The object of my invention is to provide a clamp which will, by a process as simple as driving in a nail or spike, securely fasten the sleeper to the iron beam. For the accomplishment of this object I construct my clamp so that one arm thereof will engage one of the latitudinal surfaces of the beam and the other arm thereof will be driven into the sleeper.

It is of course apparent that the two arms of my clamp diverge therefrom at such angles that the one will engage one of the latitudinal surfaces of the beam while the other can be driven into the sleeper. This sleeper is usually at right angles to the beam, but may be at other angle.

When the arm of the clamp which is driven into the sleeper is made in the form of an ordinary spike, it often will be found necessary, in practice, to hold against it a brace or guide when driving it, in order to keep it tight to the beam. If, however, the angle latitudinally between the beam and the sleeper is not a right angle, this brace or guide will be less necessary.

The arm *g* of my clamp in its most efficacious form is made with plane surfaces, which nip and bite the wood of the sleeper. These surfaces are slightly bent or inclined, so as to form a screw movement to the clamp when driven into the sleeper, and so that the incli-

nation of the other end of the clamp which engages with the beam is toward the beam, so as to hug it tightly.

The accompanying drawings illustrate my invention.

Figure 1 is a sectional view of a portion of flooring, showing application of my invention. Fig. 2 is a side elevation of my invention with the arm which is driven into the sleeper in the screw form. Fig. 3 is a front elevation of the same form of my invention as shown in Fig. 2.

Similar letters refer to similar parts throughout the several views.

In the drawings, *d* is the beam.

*e* is the sleeper.

*f* is the floor.

The object of my invention is to fasten the sleeper *e* to the beam *d*. The clamp for accomplishing this is marked *a*. It has two arms—one *c*, which engages with one of the latitudinal surfaces of the beam, and the other arm *g*, which is driven into the sleeper *e*.

The arm *g* of my clamp is of screw form, so that when driven into the sleeper *e* it will draw the arm *c* up to the beam *d*. It is obvious that the screw will be right or left hand, according as the arm *c* is on one or the other side of *a*.

A slight projection of the arm *g* upon which the hammer strikes, as shown in the drawings, is useful; but I do not claim it as part of my invention.

What I claim as new, and desire to secure by Letters Patent, is—

1. The sleeper-clamp *a*, having the arm *c*, and the other arm *g* of a screw form, so that when driven into the sleeper it will draw the arm *c* toward the beam *d*, substantially as and for the purpose specified.

2. The combination of the sleeper *e*, the beam *d*, and the clamp *a*, having the arm *c*, and the other arm *g* of a screw form, so that when driven into the sleeper it will draw the arm *c* toward the beam *d*, substantially as and for the purpose specified.

GILBERT MICHAUD.

Witnesses:

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