No. 661,133. Patented Nov. 6, 1900.

W. H. RIGGLE.

CLAMP.

(Application filed June 30, 1900.)

(No Model.) 2 Sheets—Sheet 1.

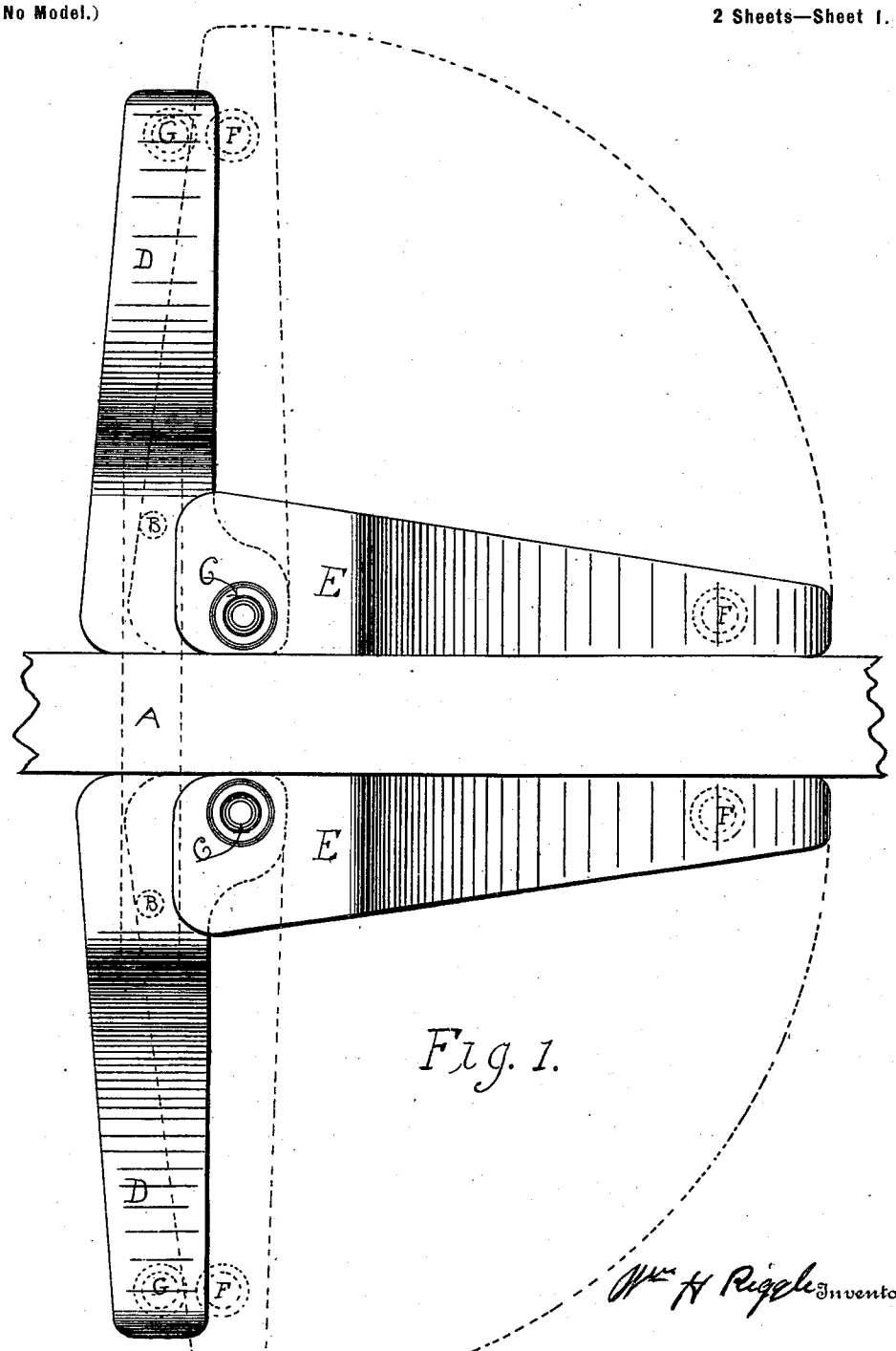


Fig. 1.

Witnesses
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Fig 2

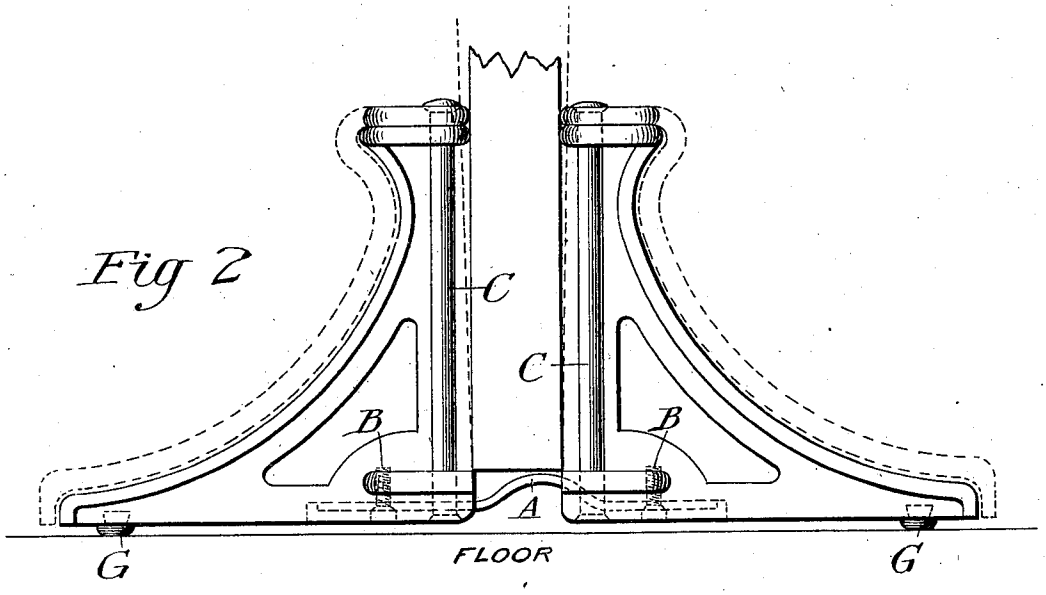
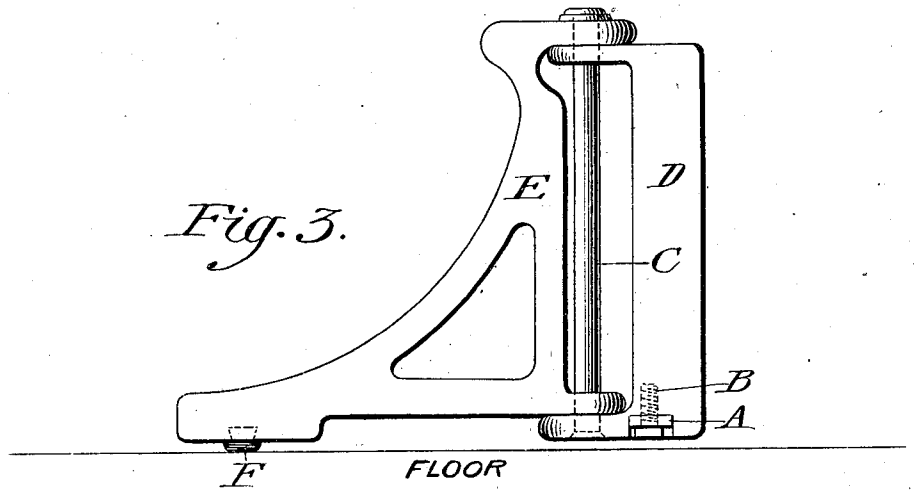


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM H. RIGGLE, OF CHARLEROI, PENNSYLVANIA.

CLAMP.

SPECIFICATION forming part of Letters Patent No. 661,133, dated November 6, 1900.

Application filed June 30, 1900. Serial No. 22,245. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. RIGGLE, a citizen of the United States, residing at Charleroi, in the county of Washington and State of Pennsylvania, have invented a new and useful Carpenter's Automatic Clamp, of which the following is a specification.

My invention relates to improvements in carpenters' clamps, consisting of a pair of nearly vertical complementary jaws mounted on folding brackets, automatically becoming engaged in rigidly locking an article upon the weight thereof, bearing on a steel piece connecting the under side of the brackets, until automatically released by lifting the said object off of the said spring.

The object of my improvements is to provide a light clamping instrument for rigidly holding a door, shutter, blind, or similar object while the said thing is planed, fitted, or hinged for placement, avoiding the use of trestles and usual board dinting the jambs of the door-casement, also avoiding the scratching of the door by the rubbish on the floor.

Figure 1 is a plan view of my device. Fig. 2 is a vertical central section looking from one side. Fig. 3 is an end view.

My device consists of two triangular brackets D, intended to stand vertically upon the floor and to clamp the door or thing between them. Each bracket has at the outer end of its lower face or edge a rubber foot or tip F to prevent the bracket from slipping on the floor, and the two brackets are connected in a pair by a steel spring A, so arranged and secured by bolts B that the inner vertical edges of the brackets stand apart one-eighth inch more at the top than at the bottom when no door or thing is being clamped. Said spring has a crown portion between the brackets, and the effect of placing the door between the brackets is by its weight pressing on the said crown of the spring to tilt the brackets on the rubber feet or tips F and cause them to tightly clamp the door between them.

Each bracket D has lateral horizontal lugs, through which pass vertical bolts C, which serve as pivots for wings E, shaped similarly to the brackets D and capable of swinging on said bolts either out to a right angle with the brackets D or be folded parallel to and against the side of the brackets D. Said wings E also have at the outer ends of their lower faces or edges rubber feet or tips F. When the wings E are turned out at right angles to the brackets D, they serve to support the same steadily in vertical position upon the floor and also serve to extend the clamping-surface of the device upon the door. For transportation the wings E may be folded against the sides of bracket D, and the latter may be detached from each other by removing one or both of the spring-securing bolts B to facilitate packing of the parts for transportation.

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

The combination of two brackets connected together but held spaced apart the thickness of the door or thing to be clamped with one edge of each opposing the other by an adjustable spring, each having near the outer end of its lower edge a supporting-foot, of wings pivoted to the side of said brackets so as to be capable each of swinging out at a right angle to its bracket and into the plane of said opposing edge of its bracket or to be folded back against the side of said bracket and also having a foot near the outer end of its lower edge resting upon the floor.

In testimony whereof I have signed my name to this specification in presence of two subscribing witnesses.

WILLIAM H. RIGGLE.

Witnesses:
JOHN S. RODGERS,
MINTON SHIPE.