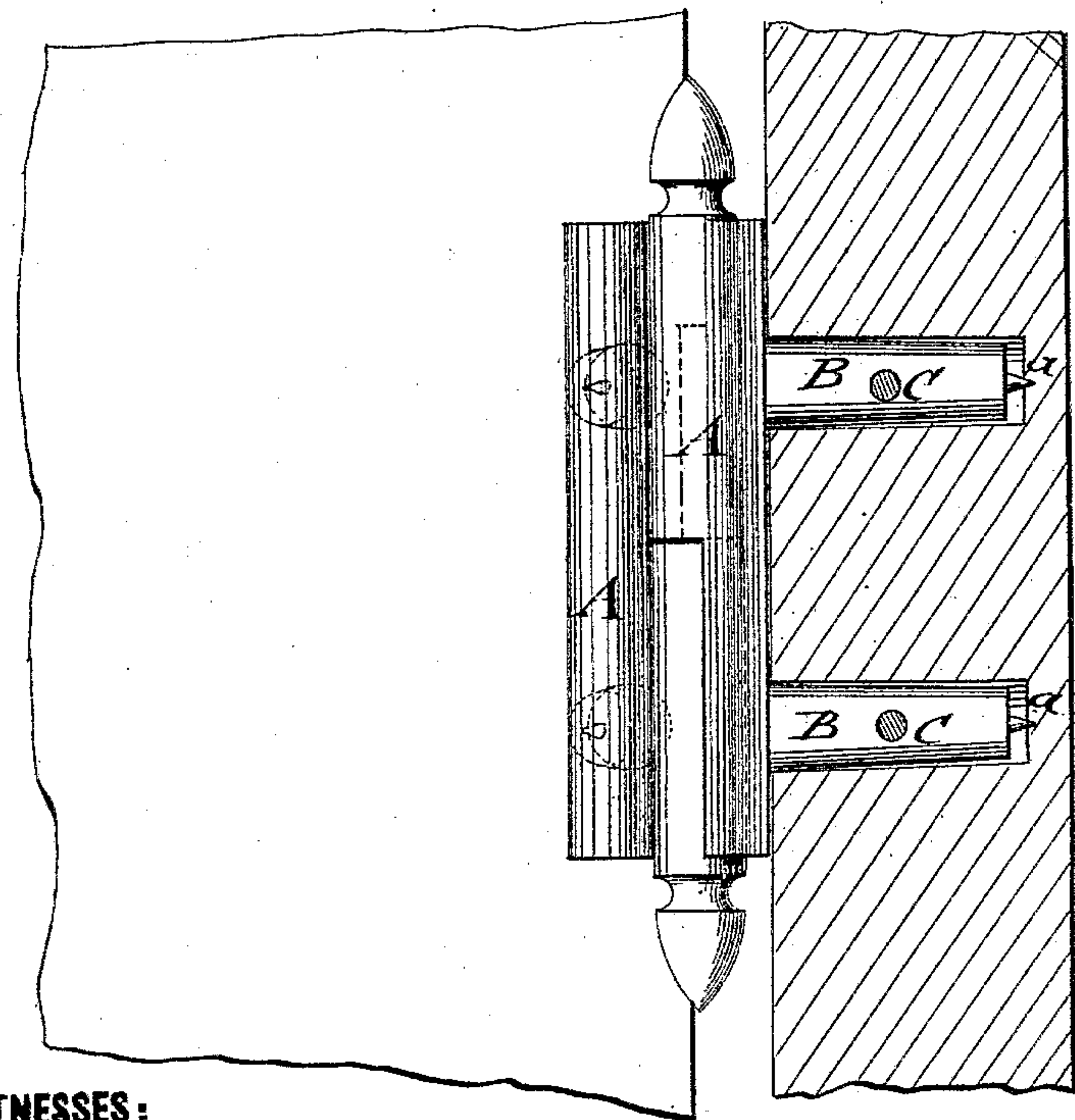
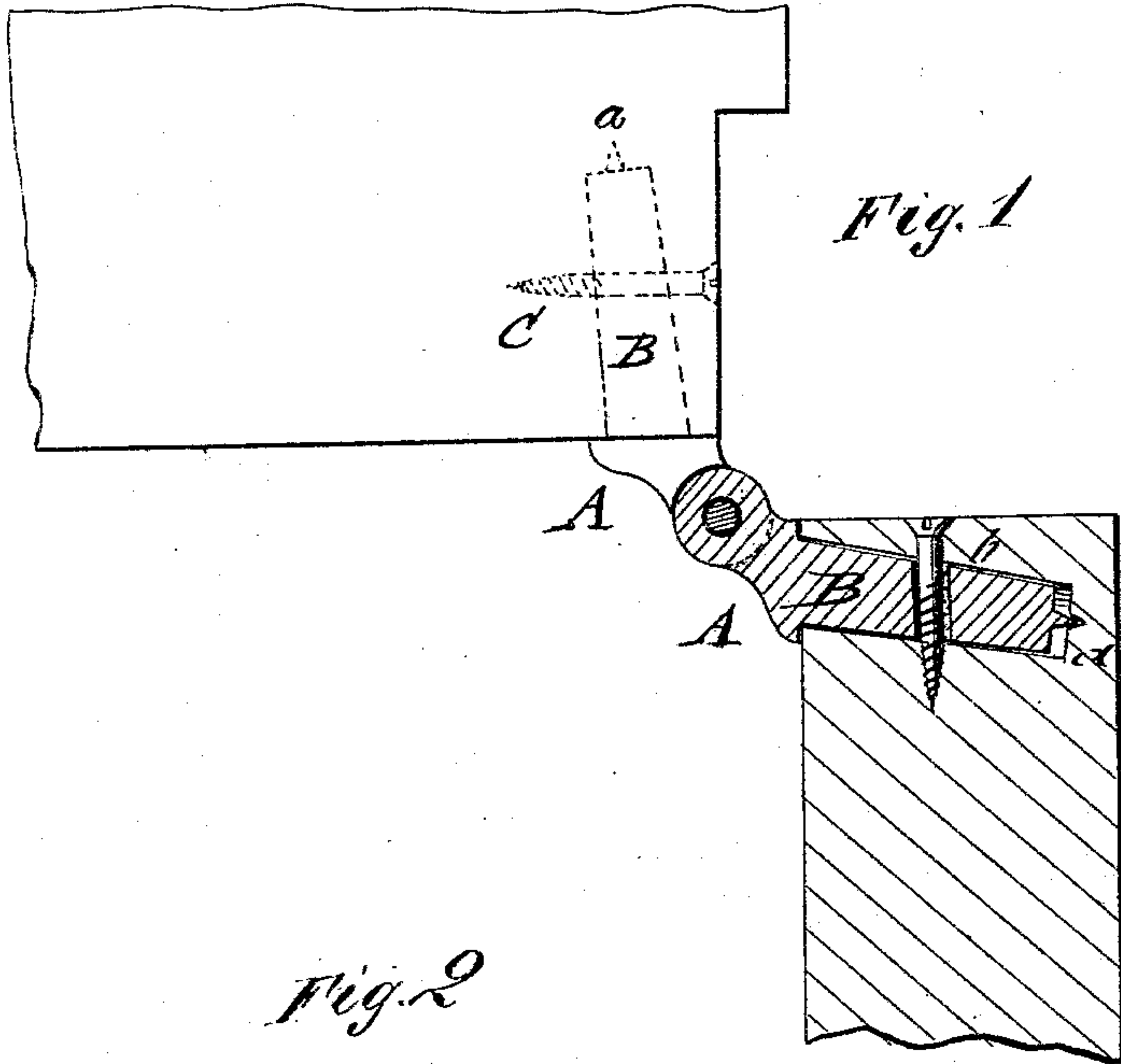


H. E. GRIFFIN.  
Hinge.

No. 210,686.

Patented Dec. 10, 1878.



WITNESSES:

*A. W. Almquist*  
*C. Sedgwick*

INVENTOR:

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ATTORNEYS.

# UNITED STATES PATENT OFFICE.

HENRY E. GRIFFIN, OF OLYMPIA, WASHINGTON TERRITORY.

## IMPROVEMENT IN HINGES.

Specification forming part of Letters Patent No. **210,686**, dated December 10, 1878; application filed March 19, 1878.

*To all whom it may concern:*

Be it known that I, HENRY E. GRIFFIN, of Olympia, in the county of Thurston and Territory of Washington, have invented a new and Improved Door-Hinge, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a horizontal section of door with my improved hinge; and Fig. 2, a side elevation of the hinge, shown as attached to door and casing.

Similar letters of reference indicate corresponding parts.

The invention relates to an improved door-hinge that may be put on at a saving of screws without difficulty even by inexperienced hands, forming a cheap, neat, and strong support for the door.

The invention consists of hinge sections or knuckles having legs extending at suitable inclination into the door and casing, the legs having marking end spurs, and being securely attached by fastening-screws passing through end of door and casing and through holes of the legs.

In the drawing, A represents the knuckles or connecting-sections of my improved hinge for hanging doors of all kinds. The knuckles A bear against the door and casing, and are cast with two or more legs, B, that extend at a suitable angle of inclination from the face part of the knuckles, to be inserted into bore-holes of the door or casing that are set at an angle corresponding exactly to that of the legs. The angle of the bore-holes is readily obtained by suitable gage devices, the point where the bit should be started being marked off by spurs *a* at the ends of the legs.

Each leg B is provided with one or more cross-holes, *b*, according to its length, for the passage of the fastening-screws C, that are screwed in at points set off by dividers at the

proper distance at the end of door and side of door-casing, as shown in Fig. 1 of the drawing.

For light doors two screws only for each hinge-section are required, which forms a considerable saving in screws, as compared with the common door-hinges in use. The hinge requires less material, as the wings or plates are dispensed with, the lugs taking their place.

The hinges are readily applied to door and casing. When the door is wedged up to suitable height from the bottom to clear the same, two holes are then bored by the auger-bit into the door and two in the casing, and the hinge-sections inserted. The door will then readily swing on the hinges, so that it can be opened and the fastening-screws be put in.

The hinge is of neat and ornamental appearance, as the wing-plates are done away with, and thereby only the knuckles shown.

The legs may be made of any length and thickness, according to the size and thickness of doors, the hinge serving, when being shut tightly, to mark for the borings of the legs, so as to facilitate the applying of the same and hanging of the doors.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. An improved door-hinge made of knuckle-sections with inclined legs, secured to holes of the door and casing by fastening-screws, substantially as set forth.

2. The fastening-legs of the hinge-sections, having central end spurs to mark the place for boring holes for the legs, substantially as specified.

HENRY EVANS GRIFFIN.

Witnesses:

E. MARSH,

WILLIAM M. WHITE.