

No. 776,277.

PATENTED NOV. 29, 1904.

H. F. VOLBERDING.
CARPENTER'S DEVICE.

APPLICATION FILED OCT. 9, 1903.

NO MODEL.

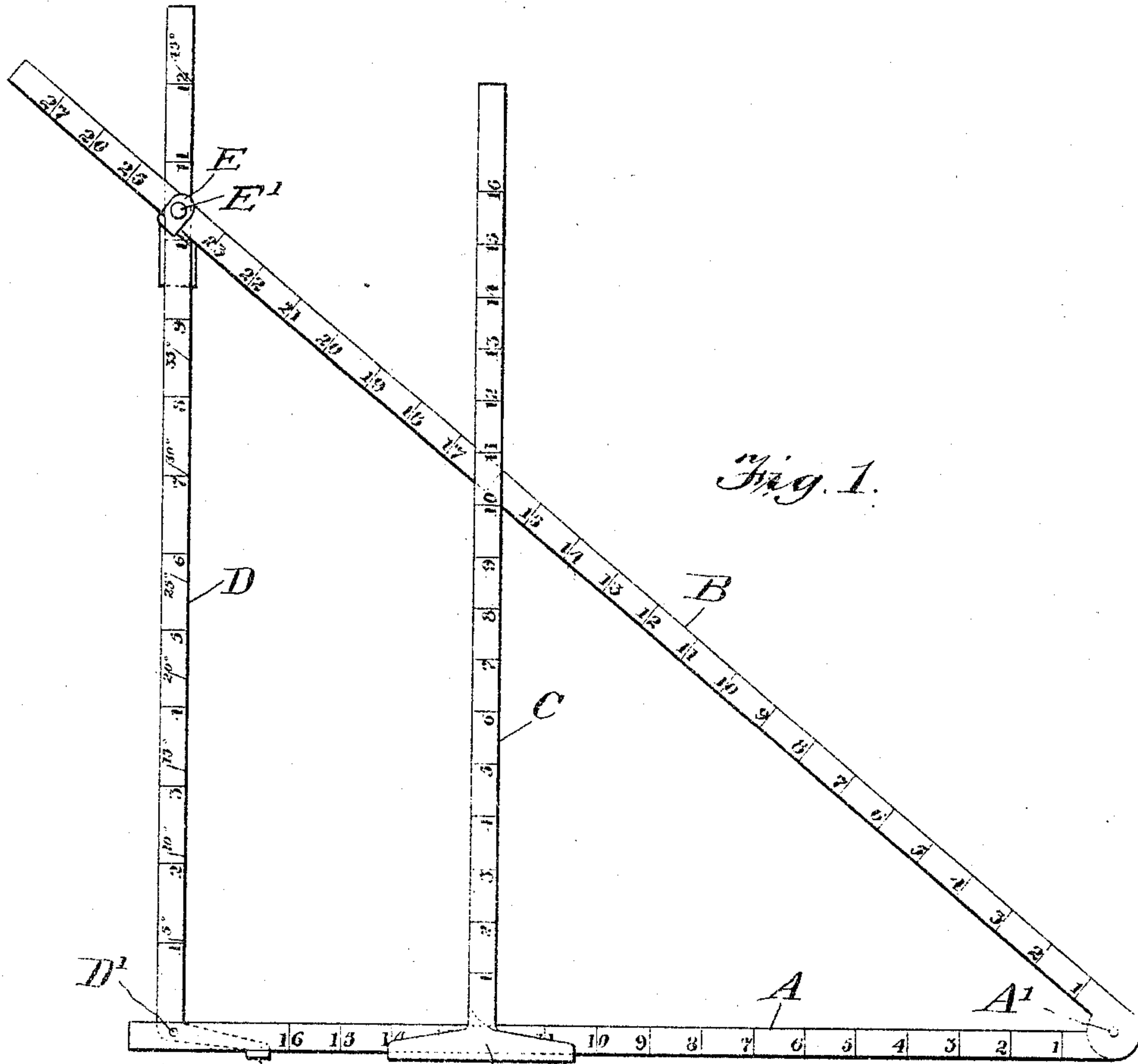


Fig. 1.

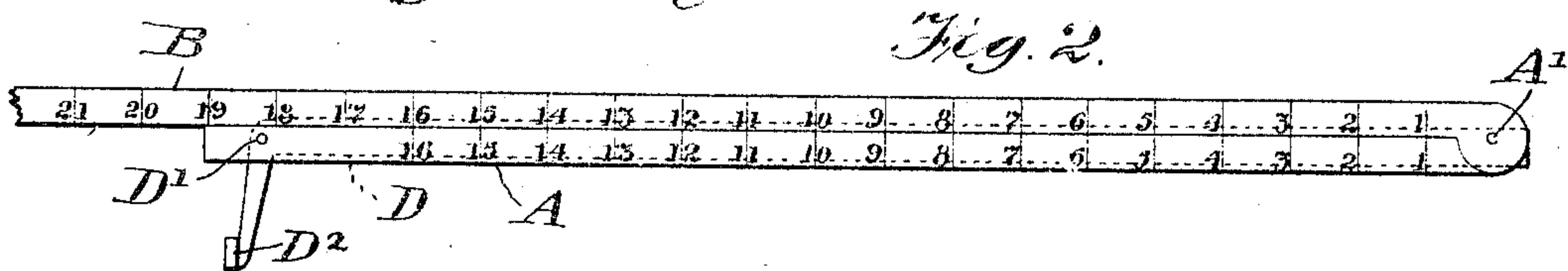


Fig. 2.

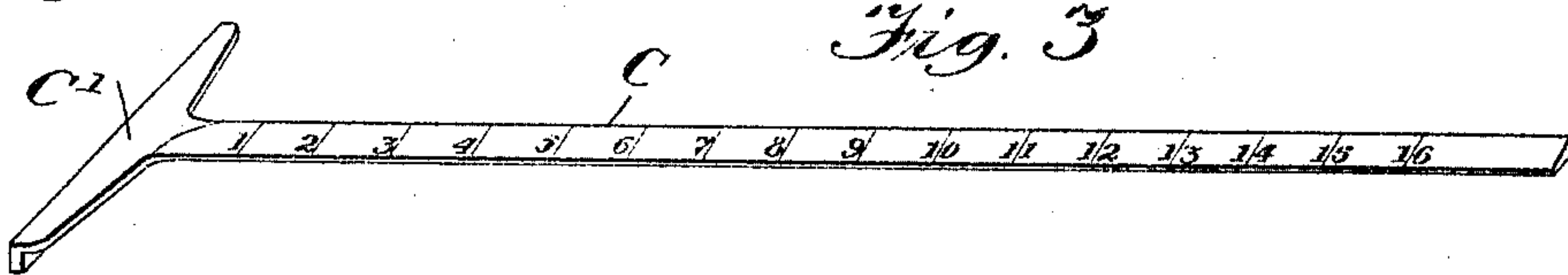


Fig. 3.

Witnesses:

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UNITED STATES PATENT OFFICE.

HERMAN F. VOLBERDING, OF DIKE, IOWA.

CARPENTER'S DEVICE.

SPECIFICATION forming part of Letters Patent No. 776,277, dated November 29, 1904.

Application filed October 9, 1903. Serial No. 176,397. (No model.)

To all whom it may concern:

Be it known that I, HERMAN F. VOLBERDING, a citizen of the United States, residing at Dike, county of Grundy, and State of Iowa, have invented a certain new and useful Improvement in Carpenters' Devices, of which the following is a specification.

My invention relates to a new and useful improvement in carpenters' devices; and I have for my object to provide a device to be used in the laying of rafters and braces.

With this end in view this invention consists in the details of construction and combination of elements hereinafter set forth, and then specifically designated by the claim.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, the construction and operation will now be described in detail, referring to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a side elevation of my device in position for use; Fig. 2, a side elevation of the device folded; Fig. 3, a perspective view of the upright sliding member.

This device consists of the four members A, B, C, and D. A is the member upon which the run of a rafter is figured and is marked with graduations suitably numbered. B is the member on which the length is found and is also marked with graduations and suitably numbered. The members A and B are hinged together at the point A', so that they may fold, this joint being made similar to the joint used in an ordinary folding rule. C is the member on which the height is found, and this member is not secured to the other parts, but is adapted to be held by the hand when wanted. The lower end of the member C slides upon the member A and is provided with a head C', which is shouldered so that it will travel square with the member A, similar to a T-square. This member C is also marked with graduations suitably numbered. D is the member on which the member B is set to the given pitch, and the member D is fastened to the member A by means of a thumb-screw D' and is held at right angles to the

member A by having a shoulder D², which comes under the member A, as shown in Fig. 1. The members D and B are held together by a clamp E. The clamp E fits the member D, so that said clamp will slide up and down said member. This clamp is provided with an arm that comes over the front of the member B. This arm carries a spring which holds B and D together, and then a thumb-screw E', threaded through the arm, binds against the spring, thereby holding the two members more securely together.

With this device a carpenter can quickly figure out the manner of laying rafters and braces, and when the device is not in use it may be folded, as shown in Fig. 2, so as to occupy a comparatively small space and be easily carried in the tool-chest.

Of course I do not wish to be limited to the exact construction here shown, as slight modifications could be made without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new and useful is—

In a device of the character described, a horizontal member, an oblique member pivoted at one end to one end of the horizontal member and adapted to form an acute angle with the horizontal member, a vertical member pivoted at its lower end to the other end of the horizontal member, means for holding said vertical member at right angles to the horizontal member, the upper end of the vertical member crossing the oblique member, a movable clamp for binding the oblique member and vertical member together, a movable vertical member adapted to slide along the horizontal member and cross the oblique member, each of the four members being marked with graduations and numbered, as and for the purpose specified.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

HERMAN F. VOLBERDING.

Witnesses:

GEORGE H. MARTINDELL,
P. D. MOELLER.