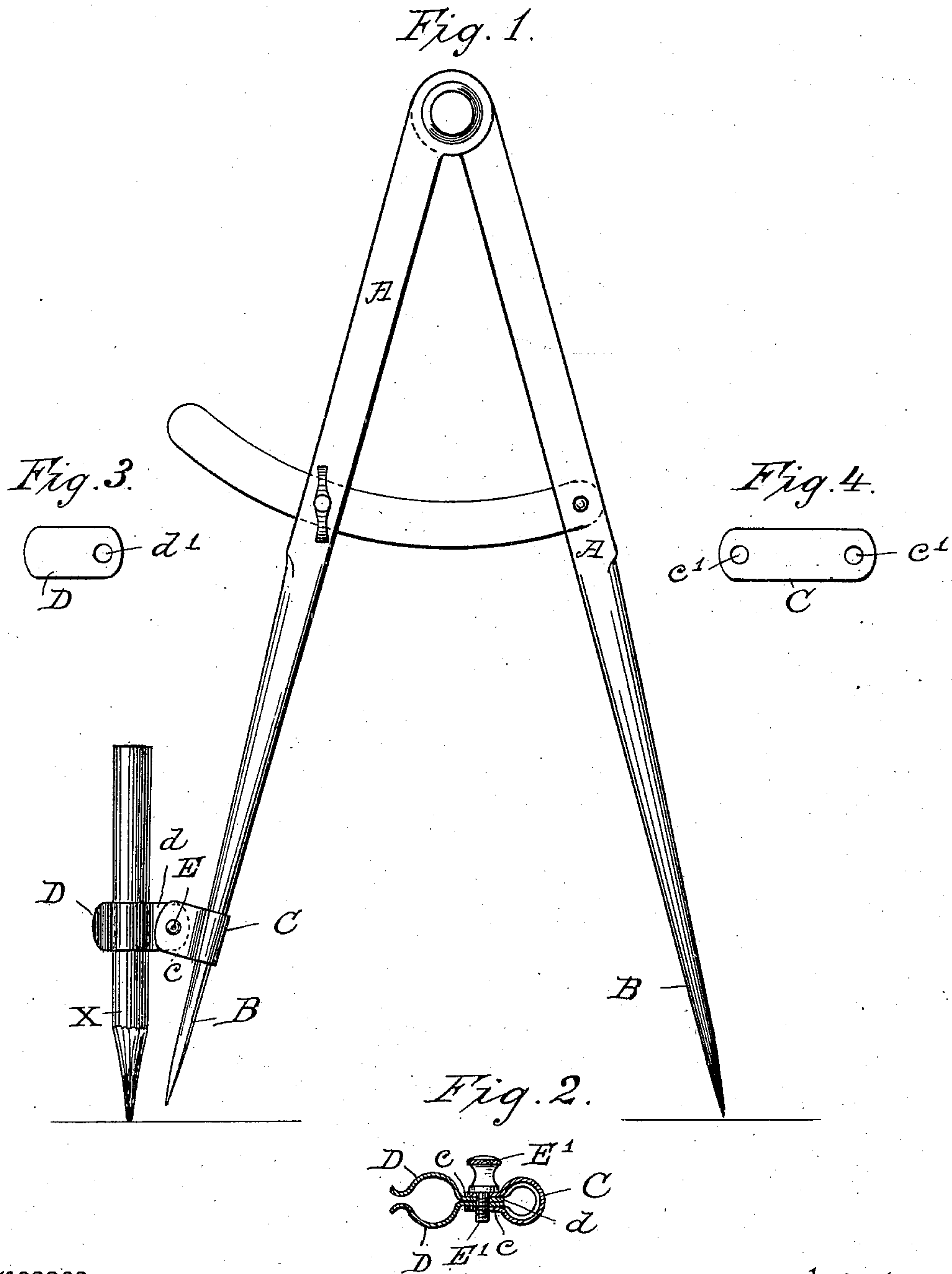


(No Model.)

W. S. SMITH.
ATTACHMENT FOR DIVIDERS.

No. 504,116.

Patented Aug. 29, 1893.



Witnesses
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W. B. Howe

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UNITED STATES PATENT OFFICE.

WARREN S. SMITH, OF ST. JOHNSBURY, VERMONT.

ATTACHMENT FOR DIVIDERS.

SPECIFICATION forming part of Letters Patent No. 504,116, dated August 29, 1893.

Application filed April 3, 1893. Serial No. 468,800. (No model.)

To all whom it may concern:

Be it known that I, WARREN S. SMITH, a citizen of the United States, residing at St. Johnsbury, in the county of Caledonia and State of Vermont, have invented certain new and useful Improvements in Attachments for Dividers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to pencil holders applicable to the ordinary carpenters' dividers, of the class which are easily attached and detached;—the object being to provide ready means for the use of a lead pencil instead of the steel point of a divider which has no socket for receiving a pencil.

The invention consists in the novelty of construction hereinafter shown, and in the adjustability of the pencil socket relative to the divider point socket which are connected one to the other, all of which will be fully set forth in the following specification and claims and clearly illustrated in the accompanying drawings forming a part of the same, of which—

Figure 1, represents a pair of common dividers having my improved pencil holder attached all shown in elevation. Fig. 2, is a detached sectional plan view showing an adjusting screw in elevation. Fig. 3, represents a blank from which either side of the pencil holder is formed. Fig. 4, is the blank from which the divider point socket is bent into form.

Similar letters denote corresponding parts.

A represents a pair of common carpenters' dividers having two steel-points B, which are well enough for their intended use, viz:—for marking upon wood, but when required for marking on paper, or other soft material, even upon some soft wood, a lead pencil is preferable.

To avoid the necessity of providing two pairs of dividers, one with a permanent socket for lead pencils, and the other without, I provide

a detachable pencil holding device comprising a socket for the pencil, a socket for either divider point, and an attaching pin, or adjusting screw, by which the two sockets are united.

The socket C, designed for attachment to either point B, of the dividers, is cut from thin sheet metal in the form shown in Fig. 4, and then bent to that form shown in Fig. 2, to receive the tapering cylindrical divider point, and having its ends *c*, projecting parallel and slightly separated to receive the pencil socket, D, and perforated as shown at *c'*.

The socket D, for receiving a pencil, X, is best formed of pieces such as seen in Fig. 3, having their ends *d*, extending parallel and normally in contact, and perforated as at *d'*, their remainder being bent to the form shown in Fig. 2. The sockets may then be pivoted together by means of a pivot or pin E, headed on each side sufficiently tight to create a friction of the parts *c—d* of said sockets C—D, for retaining them in any desired position, or angle one with the other as seen in Fig. 1;—or, a thumb screw E', may be substituted for a pivot, and one of the perforations *c'*, of the socket C, may contain threads to fit the threads of the screw E', and thus the pencil may be "set" any angle with the divider point desired.

Having described my invention, what I claim is—

1. In a divider attachment, a pair of sockets formed of sheet metal and pivotally connected one to the other, one socket adapted to be placed upon one leg of a pair of dividers and the other adapted to carry a lead pencil at any desired angle with said dividers.

2. In a pencil holding device, a pencil socket adjustably connected to a socket for attachment to a pair of dividers, both sockets being made of sheet metal and bent into the desired form substantially for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WARREN S. SMITH.

Witnesses:

F. C. MAYO,

V. S. WETHERELL.