

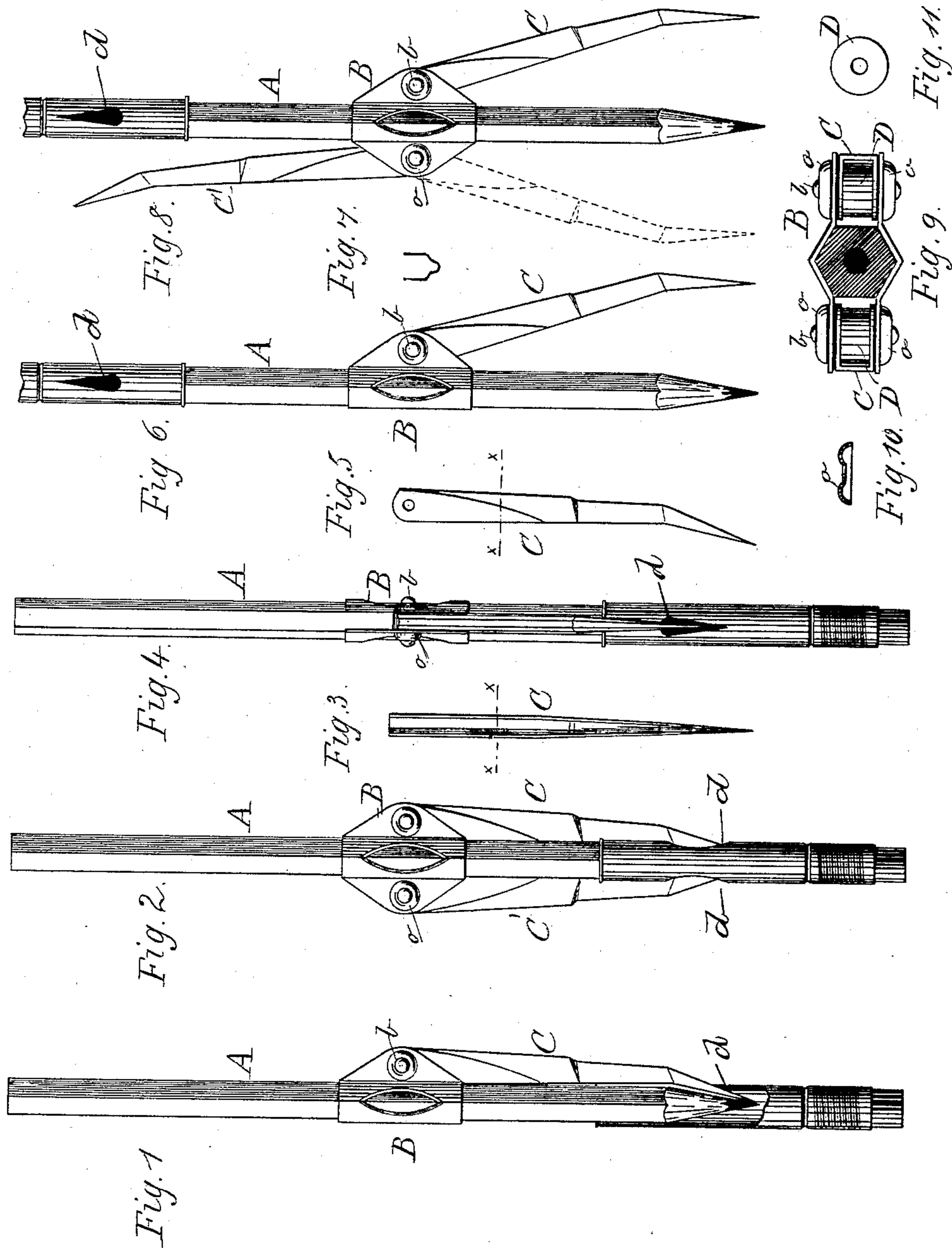
(No Model.)

E. WEISSENBORN.

COMPASS ATTACHMENT FOR PENCILS.

No. 341,081.

Patented May 4, 1886.



WITNESSES

W. A. Lowe
Charles E. Lee

INVENTOR

Edward Weissenborn

UNITED STATES PATENT OFFICE.

EDWARD WEISSENBOEN, OF JERSEY CITY, NEW JERSEY.

COMPASS ATTACHMENT FOR PENCILS.

SPECIFICATION forming part of Letters Patent No. 341,081, dated May 4, 1886.

Application filed May 5, 1885. Serial No. 164,447. (No model.)

To all whom it may concern:

Be it known that I, EDWARD WEISSENBOEN, of Jersey City, in the county of Hudson, of the State of New Jersey, have invented a new and useful Improvement in Pencil Attachments, of which the following is a full, clear, and accurate description, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 represents a longitudinal view of my improved pencil attachment in illustration with a point-protector for the compass-leg. Fig. 2 represents a like view of the first, with the addition of another compass-leg jointed into the clasp-stock, which will then serve the twofold purpose of compasses and dividers. Fig. 3 represents a view of the hollow leg C of the compasses. Fig. 4 represents a front view of my invention. Fig. 5 shows a side view of the compass-leg. Fig. 6 represents a view when used as a compass in the act of scribing a circle. Fig. 7 shows a section of Figs. 3 and 5 in line *x x*. Fig. 8 is an illustration of compasses and dividers combined, both in the act of performing their respective requirements. Fig. 9 represents a view of Fig. 2 to show the manner of the construction of the parts united to the pencil-stock. Fig. 10 shows the spring-washer in section. Fig. 11 shows the cylindrical piece of metal on which the washer is to rest.

Similar letters of reference indicate corresponding parts.

A represents a pencil, to which is attached a clasp-stock, B, consisting of two pieces of thin sheet metal or other suitable material. To this clasp-stock is secured the compass or divider leg or legs C. These are made of thin sheet metal or other proper material, and stamped out or made hollow. These legs are secured to the clasp-stock B by inserting a small cylindrical piece of metal, D, through which a rivet, *b*, passes to washers *o*, and thus holds the clasp-stock B to the legs C. This clasp-stock can be made to hold either one or two legs, as shown in the drawings, depending upon the instrument desired.

The clasp-stock B may be adapted to hold

either rounded or cornered pencils, and is capable of being slid to any position on the pencil A, the pencil answering the twofold purpose of a handle and the scribing-leg, while the compass-leg C performs the duty of the centering part.

Fig. 8 shows combined compass-dividers, where both may be used independently for the one use or the other by merely turning up one of the compass-legs, as C', from the position of operativeness to one of inoperativeness, when a compass like Fig. 4 is provided; or the compass-leg C' may be carried down, when perfect dividers are furnished.

The slit *d* (plainly seen in Figs. 4, 6, and 9) in the rubber casing, into which the point of the compass-leg is inserted, in connection with said casing, answers admirably as a point-protector to both compass-leg and pencil, thereby preventing the respective points from being damaged, at the same time from doing injury therein. A view illustrates this clearly in Fig. 2.

I preferably use to unite the legs of the compasses or dividers spring-washers, which are especially shown in Figs. 9 and 10. These spring-washers *o* are for the purpose of preventing the legs of the compasses or dividers from binding or jerking when being opened or closed. These spring-washers constitute an important feature of an invention in compasses or dividers for which I made an application for a patent bearing even date herewith, in which application it is fully described. In brief, the improvement consists in forming the washer as shown substantially at Figs. 9 and 10, so that it will rest only with its rim or circumference on the part or piece to which it is secured, as shown in Fig. 9.

I do not claim, broadly, the combination of compasses with a pencil or pencil-stock, as this forms the subject matter of an improvement patented to me October 12, 1869; but

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

1. The combination, with a pencil or pencil-stock, of the compass or divider legs jointed thereto at opposite sides thereof, substantially as described.

2. In combination with a pencil or pencil-stock, the compass or divider legs and compass-leg point-protector having slits, substantially as described.

5 3. In combination with a pencil or pencil-stock, the compass or divider legs, cylinder D, rivet b, and spring-washers o, substantially as described.

In witness whereof I have hereunto set my hand this 27th day of April, 1885.

EDWARD WEISSENBORN.

In presence of--

R. F. VAN BOSKERCK,
CHARLES G. COE.