S. JACHIMOWICZ.

BEAM COMPASS.

APPLICATION FILED DEC. 1, 1915.

1,240,853.

Patented Sept. 25, 1917.

FIG. 1

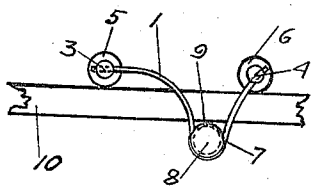


FIG. 2

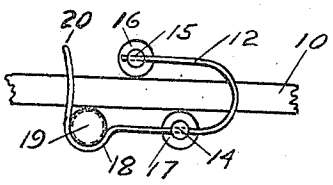


FIG. 3

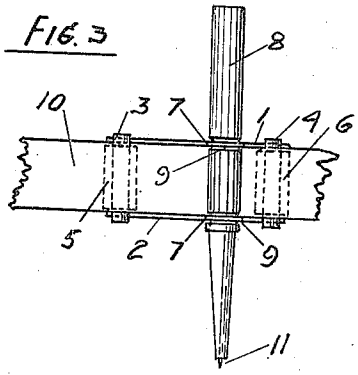
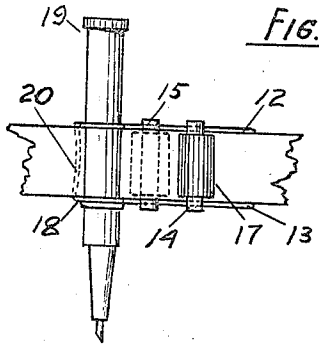


FIG. 4



WITNESSES:

Fritz Ohl

A. Ochsli

INVENTOR

Szymon Jachimowicz

UNITED STATES PATENT OFFICE.

SZYMON JACHIMOWICZ, OF ZURICH, SWITZERLAND.

BEAM-COMPASS.

1,240,853. Specification of Letters Patent. Patented Sept. 25, 1917.

Application filed December 1, 1915. Serial No. 64,578.

To all whom it may concern:

Be it known that I, SZYMON JACHIMOWICZ, engineer, a subject of the Emperor of Russia, residing at Stapferstrasse No. 1, Zurich, Switzerland, have invented new and useful Improvements in Beam-Compasses, of which the following is a specification.

The present invention relates to a beam-compass adapted to be used for any purpose especially on the drawing-board. The object of the invention is to provide a beam-compass which is extremely simple and inexpensive the parts of which being easily adjustable in relation to each other but are nevertheless firmly held during work without screw or the like.

To these ends my invention consists of certain features of construction and combination of parts, which will hereinafter be described and claimed.

Reference is to be had to the accompanying drawings forming a part of this specification in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 shows one form of construction of the beam-compass in a top view; Fig. 2 shows a modified form of construction of the beam-compass in a top view. Figs. 3 and 4 are side views of the devices corresponding to the Figs. 1 and 2 respectively, Fig. 3 showing a pin holder and Fig. 4 a pencil holder.

The beam-compass comprises a beam 10 of any suitable material, two carriages which may have either of the forms shown in Figs. 1 to 4, a pin holder shown in Fig. 3 and a pencil holder shown in Fig. 4.

The carriage as shown in Fig. 1 comprises two wire parts 1, 2 interconnected by pins 3, 4. On the pins 3, 4 there is a roller 5, 6 running on the beam 10.

The wires 1, 2 are bent and the bends form seats for the pin 8. The pin 8 is provided with two grooves 9 in which the wires 1, 2 rest. By said wires 1, 2 pin 8 is held firmly against beam 10. Between the grooves 9 pin 8 is roughened and if pin 8 is turned by hand the carriage is moved along and the steel pin 11 may be adjusted by these means rapidly and very exactly according to requirements.

The carriage shown in Figs. 2 and 4 is formed from the single piece of wire and is provided with two shanks 12, 13. Said shanks are interconnected by the pins 14, 15 on which rollers 16, 17 are rotatably mounted. The shanks 12, 13 form a seat 18 in which a pencil holder 19 rests. The shanks 12, 13 are formed in such a manner that they clasp the beam 10 from above and below and at the same time pressing the pencil holder 19 firmly against the beam.

To release the pencil holder 19 the center part 20 of the wire is pressed against the beam whereby the curved part 18 is lifted off from pencil holder 19.

Having thus described my invention what I claim as new and desire to secure by Letters Patent of the United States is as follows:

1. In a beam-compass, a beam, a marking device, a carriage adjustable along the beam and clamping the marking device thereto, said carriage being formed of wire bent to embrace the beam and the marking device, pins provided with antifriction rollers arranged on opposite sides of the beam and connecting portions of the wire on the opposite edges of said beam.

2. In a beam-compass, a beam, a marking device provided with grooves, a carriage adjustable along the beam and clamping the marking device thereto, parts of the carriage being formed of wire seated in said grooves and arranged on opposite edges of said beam and pins provided with antifriction rollers connecting said parts.

3. In a beam-compass, a beam, a marking device, a carriage adjustable along the beam, said carriage being formed of one piece of wire, bent to embrace the beam and press said marking device against said beam, pins connecting portions of said wire on the opposite edges of said beam and provided with antifriction rollers arranged on opposite sides of the beam.

4. In a beam-compass, a beam, a marking device, a carriage adjustable along the beam said carriage being formed of wire bent in such a manner as to embrace a beam and press said marking device against said beam, a portion of said wire being formed in such a manner as to allow release of said marking device after pressure is applied to said portion of the wire.

In testimony whereof I affix my signature.

SZYMON JACHIMOWICZ.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."