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J. HOFFMANN.

DRAWING INSTRUMENT.

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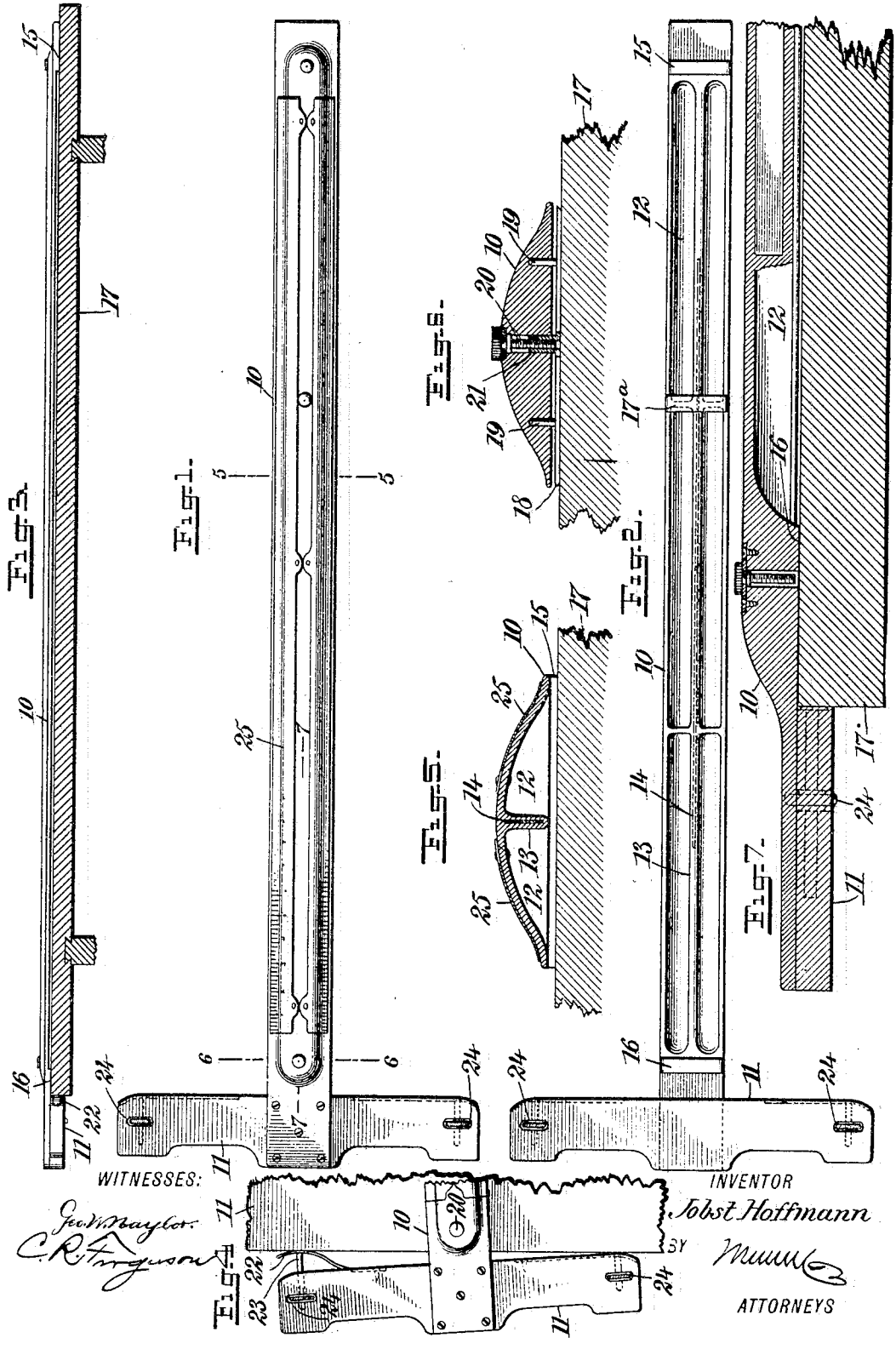


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No. 781,724. Patented February 7, 1905.

UNITED STATES PATENT OFFICE.

JOBST HOFFMANN, OF NEW YORK, N. Y.

DRAWING INSTRUMENT.

SPECIFICATION forming part of Letters Patent No. 781,724, dated February 7, 1905.

Application filed March 14, 1904. Serial No. 198,173.

To all whom it may concern:

Be it known that I, JOBST HOFFMANN, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Drawing Instrument, of which the following is a full, clear, and exact description.

This invention relates particularly to improvements in T-squares or right-line rules, an object being to provide a device of this character so constructed that it may be slid over a drawing without danger of blurring ink-lines that may not be dry, thus resulting in a saving of time in making drawings.

Other objects of the invention will appear in the general description.

I will describe a drawing instrument embodying my invention and then point out the novel features in the appended claims.

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

Figure 1 is a top plan view of a drawing instrument embodying my invention. Fig. 2 is a bottom plan view thereof. Fig. 3 is an edge view. Fig. 4 is a detail plan showing a means for adjusting the angle of the instrument. Fig. 5 is a section on the line 5 5 of Fig. 1. Fig. 6 is a section on the line 6 6 of Fig. 1, and Fig. 7 is a section on the line 7 7 of Fig. 1.

Referring to the drawings, 10 designates a rule, on one end of which is secured a cross-head 11. These parts may consist of any suitable material—such, for instance, as wood or metal—and for the sake of lightness, with necessary strength, the rule 10 is cored out or recessed at the under side, as indicated at 12, and arched at the top. At the center, however, there is a longitudinal rib 13, in which is seated a metal plate 14, which will prevent any lateral springing of the rule.

At the ends of the rule and on the under side thereof are blocks 15 16, which are designed to bear upon the drawing-board 17 and to raise the intermediate or body portion of the rule above the drawing that may be on the board, thus permitting the rule to be moved over the drawing without danger of blotting or blurring wet lines. When the device is used on short boards, I may employ supplemental blocks or plates 17^a, which are removably secured to the rule, and in instances where the paper or tracing-cloth may be somewhat loose on the board I may employ an extending plate 18, consisting of metal or the like. This plate 18 has pins 19 designed to engage in perforations formed in the rule, and it may be adjusted by means of a screw 20, passing through the rule and engaging in a threaded sleeve 21, attached to the plate.

It sometimes happens that a pencil-drawing is transferred from one board to another for inking, and as the boards or T-squares may not to be of the same character or slightly out of relation with each other I provide a means whereby the present instrument may be adjusted to the differences in line angles. This means consists of spring-plates 22, attached to the head 11 and regulated by means of screws 23, arranged in the head and manipulated by finger-pieces 24, which project through slots formed in the head.

Removably attached to the rule 10 are scale-plates 25. By making the plates removable it is obvious that any required scales may be used in connection with the rule.

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

1. A drawing instrument comprising a rule arched at the top and recessed at the under side, a longitudinal rib in said recess, a stiffening-plate arranged in said rib, blocks on the under side and at the ends of the rule whereby the intermediate portion is elevated, and a cross-head on the rule.

2. A drawing instrument comprising a rule, arched at the top and recessed at the under side, a longitudinal rib on the under side of the rule, a metal plate in said rib, and blocks on the under side of the rule for elevating the same.

3. A drawing instrument comprising a rule, an elevating-block consisting of a plate, pins on said plate extended into perforations in the rule, and an adjusting-screw for the plate.

4. A drawing instrument, comprising a rule, a cross-head thereon, spring-plates on said cross-head on opposite sides of the rule and adapted to engage against the edge of a drawing-board, the said cross-head being provided with slots, screws in the cross-head engaging with said plates, and finger-pieces on the screws and located in said slots.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOBST HOFFMANN.

Witnesses:
JNO. M. RITTER,
C. R. FERGUSON.