

W. C. POCKLINGTON.
DRAFTING INSTRUMENT.

APPLICATION FILED OCT. 10, 1910. RENEWED NOV. 9, 1911.

1,031,665.

Patented July 2, 1912.

2 SHEETS—SHEET 1.

Fig. 1.

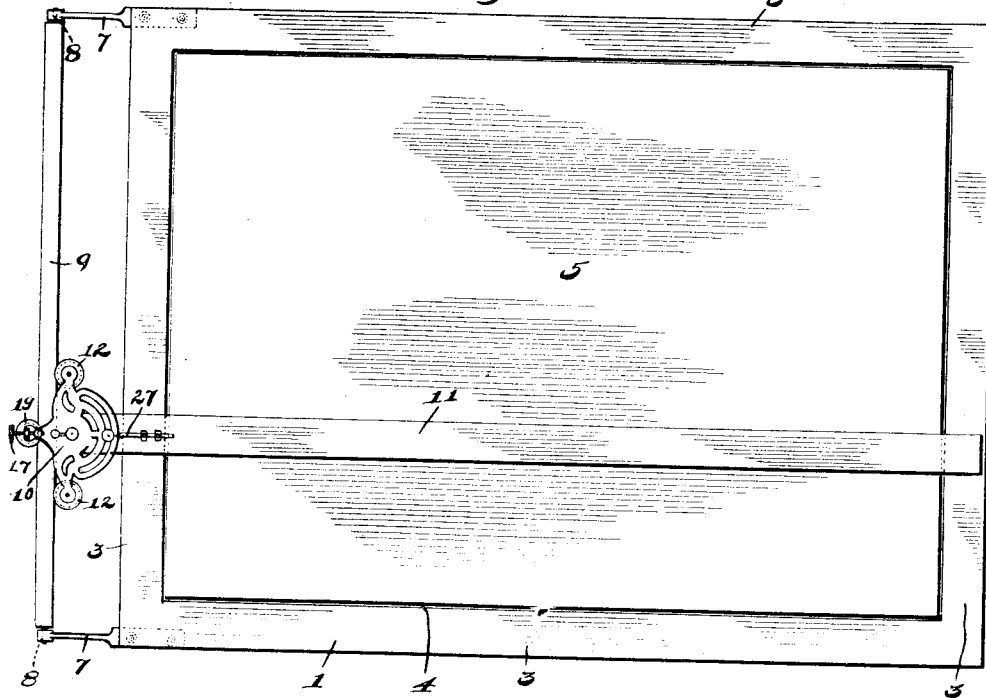
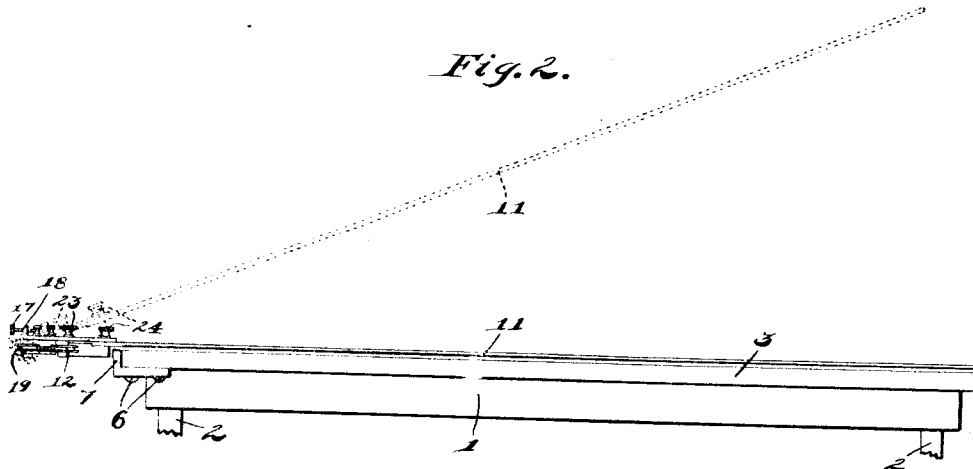


Fig. 2.



Witnessed:

C. E. Wessels.

A. A. Olson.

Inventor;

William C. Pocklington,

By Joshua R. Stone
his Attorney.

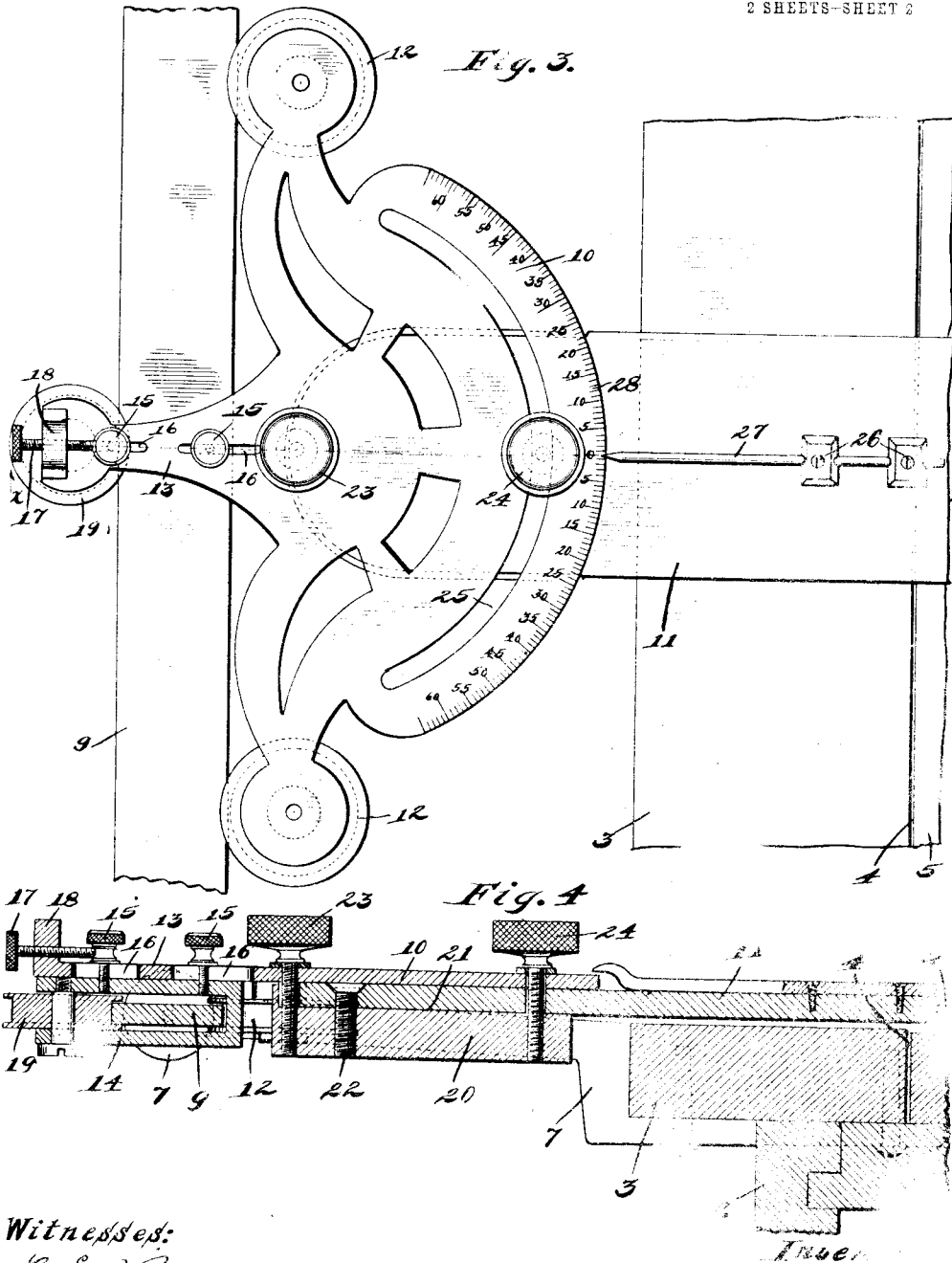
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Witnesses:
E. E. Wessels.
A. A. Olson.

William C. Pocklin
By Joshua R. H. [Signature]
his Attorney

UNITED STATES PATENT OFFICE.

WILLIAM C. POCKLINGTON, OF EVANSTON, ILLINOIS.

DRAFTING INSTRUMENT.

1,031,665.

Specification of Letters Patent.

Patented July 2 1912.

Application filed October 10, 1910, Serial No. 586,252. Renewed November 9, 1911. Serial No. 659,422.

To all whom it may concern:

Be it known that I, WILLIAM C. POCKLINGTON, a citizen of the United States, and a resident of the city of Evanston, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Drafting Instruments, of which the following is a specification.

My invention relates to improvements in drafting instruments and more specifically to T squares and means for attaching the same to drawing tables.

The object of my invention is the provision of a drafting device of the character mentioned which will be of new and improved construction and of great efficiency in use.

Other objects will appear hereinafter.

With these objects in view my invention consists in a drafting device characterized as above mentioned and in certain details of construction and arrangements of parts all as will be hereinafter more fully described and particularly pointed out in the appended claim.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification and in which,

Figure 1 is a top plan view of a drawing board and a T square applied thereto in which is embodied the preferred form of my invention, Fig. 2 is a side elevation thereof, with parts broken away. Fig. 3 is an enlarged fragmentary top plan view of the head of the T square, and portion of the construction adjacent thereto, and Fig. 4 is a section taken substantially on line x—x of Fig. 3.

The preferred form of my invention as illustrated in the drawings comprises a drawing table consisting of the top 1 and the supporting legs 2. To the top 1 at the peripheries thereof are secured straps or rails 3 forming a rectangular recess 4 for the snug reception of the drawing board 5 which is removably arranged therein, said drawing board being preferably of a thickness slightly less than that of said rails so that when the blade of a T square is drawn over the table said blade will not contact the upper surface of said board but will rest and slide upon rails 3 at the opposite sides of the table.

Rigidly secured as by screws or by other suitable securing devices 6 to one of the

side rails 3 at the extremities thereof are outwardly projecting brackets 7 provided in their outer ends with perforations 8 which serve as bearings for the reduced extremities of an oscillatory bar 9, the latter being preferably rectangular in cross section.

Arranged upon the drawing table is a T square comprising the head 10 and the blade 11. Said head is preferably formed of metal, and to the under side of said head at the extremities thereof are provided channel rollers 12 adapted to rotate upon and to snugly receive the inner edge of the bar 9. Formed integrally with and outwardly projecting from the head 10 midway between the extremities thereof is an arm 13. Arranged upon the under side of said arm 13 is a substantially U-shaped bearing member or yoke 14 the latter being secured to said arm for adjustment in a line transversely of the bar 9 by means of screws 15 which pass through elongated slots 16 provided in said arm, the lower ends of said screws being threaded into said bearing member. As seen, the said screws are provided with knurled heads so that manual rotation thereof in order to effect adjustment of said bearing member 14 may be readily effected.

In order to effect ready inward movement or adjustment of said bearing member a feeding screw 17 is provided, the latter being threaded into a lug 18 formed at the outer extremity of the arm 13, the inner extremity of said screw abutting the outermost of the screws 15. Such provision evidently affords means for effecting ready inward movement or adjustment of said bearing member and also serves as a positive stop to prevent any outward movement thereof after adjustment. Mounted in said bearing member is a channel roller 19 similar to the rollers 12, the same resting in engagement with the outer edge of the bar 9 or the edge of the latter opposite to that engaged by the rollers 12.

With the arrangement disclosed it will be seen that the head 10 will be locked to the bar 9 against relative movement upon the latter except in a longitudinal direction. By reason of the adjustment afforded the bearing member 9 as above described the rollers may at all times be held in close engagement with the bar 9 so as to take up any lost motion occasioned by wear.

The rearward end of the blade 11 is rigidly secured to a block 20 the upper side of

which is recessed as at 21 to snugly receive said end of said blade, a screw 22 serving to lock said blade thereto. The rearward end of said blade is pivotally secured to the head 10 by means of a screw 23 which extends loosely through said head, the lower end of said screw being threaded into said block. The arrangement is such that by loosening said screw said block and blade will be free for angular adjustment relative to the head 10. Positive locking of said block and blade in position of adjustment relative to the head 10 is effected primarily through the medium of a screw 24 which projects through an arcual slot 25 provided in said head, the lower end of said screw being threaded into said block. In order to facilitate ready rotation of the screws 23 and 24 in the adjustment of the blade 11 the same are preferably provided with enlarged knurled heads as indicated. Secured as by screws 26 to the blade 11 centrally thereof and adjacent the head 10 is a finger or pointer 27 which is adapted to cooperate with arcual graduations 28 provided upon said head, this provision evidently adapting the T square to serve in the capacity of a protractor.

With the arrangement as set forth it will be seen that when the T square is not in use or when it is desired to elevate the same as when removing the drawing board from the table or the paper from the drawing board, such movement is permitted by the bar 9 because of its pivotal mounting. By reason of the rolled connection of the T square with the bar 9 said square may be readily and easily adjusted along the drawing board

and by reason of the adjustment afforded by the roller 19 lost motion due to wear may be readily taken up and hence the position of the blade of the T square relative to the board constantly maintained.

While I have shown what I deem to be the preferable form of my drafting device I do not wish to be limited thereto as there might be various changes made in the details of construction and arrangements of parts described without departing from the spirit of the invention as comprehended within the scope of the appended claim.

Having described my invention what I deem as new and desire to secure by Letters Patent is:

In a drafting device, the combination of a drawing table; an oscillatory bar arranged at one side of said table; a T square head carrying spaced rollers on its under side and contacting with one edge of said bar; a yoke adjustably secured to the under side of said head between said rollers by means of bolts passing through transverse slots in said head; a set screw on said head and contacting with one of said bolts; a roller carried by said yoke and contacting with the other edge of said bar between said aforementioned rollers; and a blade secured in said head, substantially as described.

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

WILLIAM C. POCKLINGTON.

Witnesses:

FLORENCE E. LILLIS,
JOSHUA R. H. POTTS.