

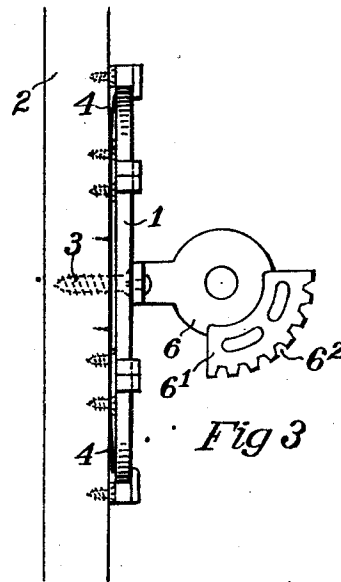
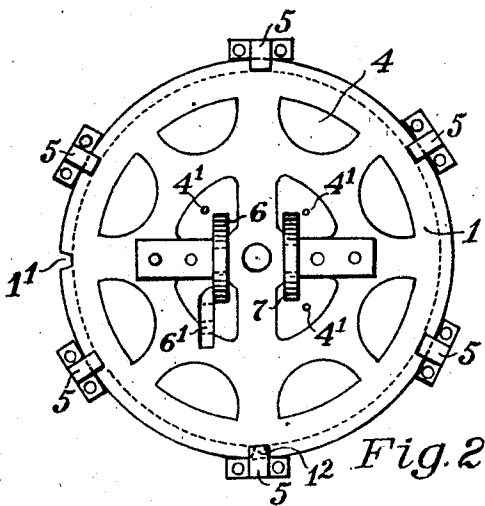
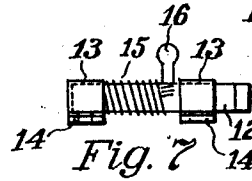
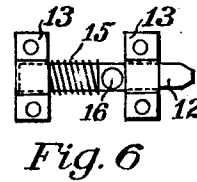
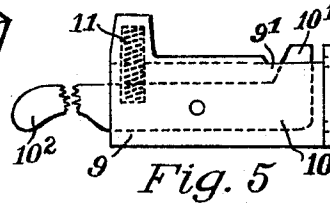
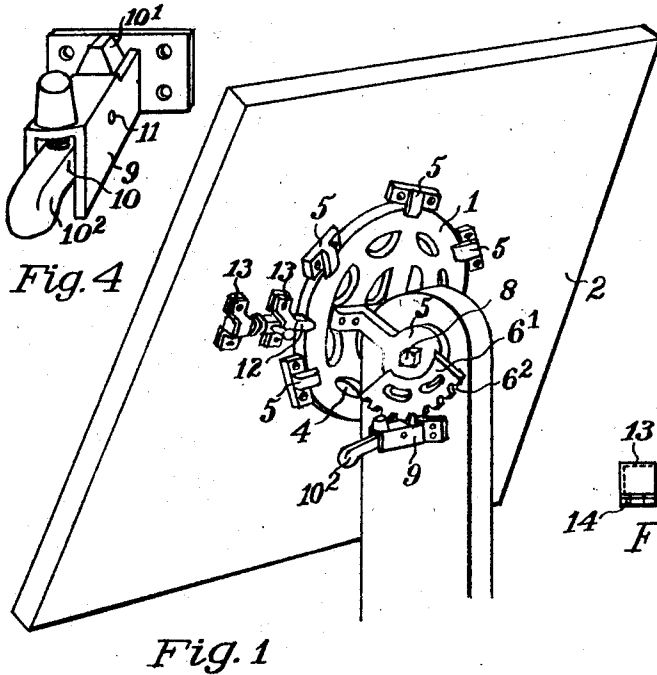
March 10, 1925.

C. C. FRASER

1,529,022

CONNECTING DEVICE FOR DRAWING TABLE TOPS AND STANDARDS

Filed Jan. 18, 1924



Witnesses:
William J. Miller
Fred Van Horn

Inventor:
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UNITED STATES PATENT OFFICE.

CHELSEA C. FRASER, OF GRAND RAPIDS, MICHIGAN.

CONNECTING DEVICE FOR DRAWING-TABLE TOPS AND STANDARDS.

Application filed January 18, 1924. Serial No. 687,009.

To all whom it may concern:

Be it known that I, CHELSEA C. FRASER, a citizen of the United States, residing at Grand Rapids, in the county of Kent and the State of Michigan, have invented certain new and useful Improvements in Connecting Devices for Drawing-Table Tops and Standards, of which the following is a specification.

10 This invention relates particularly to devices which are used in attaching tilting tops to the standards of drawing tables of the pedestal type, such as used in schools and colleges, studios, and shops. My objects are, first, to provide a construction whereby the work-table or top may be rigidly locked at various desirable working positions with even the immature strength of a child, and as easily released and moved to another position; second, to involve in this construction a means for revolving the top when the nature of the artist's work demands, without the necessity of unfastening and refastening his paper, such means providing a friction element which will render the top or work-table efficient at any point of stoppage, but which also provides a means of automatically registering right-angular alignment of edge or end.

30 I attain these objects by the use of the novel construction described herein and illustrated in the drawing.

Figure 1 is a perspective, from the side and rear, of the complete device, as attached to an ordinary drawing-board and a standard of the pedestal type. Fig. 2 is a plan of the disc-plate assembly. Fig. 3 is an elevation of the disc-plate assembly as attached to the drawing board. Fig. 4 is a perspective view of the tilting-latch. Fig. 5 is a side elevation of the tilting-latch. Fig. 6 is a plan view of the revolving-latch. Fig. 7 is a side elevation of the revolving-latch.

45 Similar numerals refer to similar parts throughout the various views.

Referring to the drawing, the disc-plate 1 is pivoted directly to the back of the drawing-board 2 by a screw 3 passing through its center or hub, also passing through the center of a tension-disc 4 of spring material, which is slightly cupped to act as a friction between the drawing-board and the disc-plate, said tension-disc being fastened immovably to the drawing-board by nails at points 4¹. As a means

of maintaining the periphery of the disc-plate 1 in close proximity to the drawing-board, and in constant contact with the tension-disc 4, the retainer brackets 5 are screwed to the drawing-board so that their noses project inwardly over the rim of the disc-plate.

The disc-plate 1 centrally supports two tilting brackets 6 and 7, which are pivoted to the standard by a bolt 8. The tilting-bracket 6 is provided with a notched disc segment 6¹ which rotates as the drawing-board is moved tiltingly, and the said notches 6² correspond with various desirable working angles for the drawing-board when said notches are engaged with the tilting-latch, shown in Figures 1, 4, and 5, and which is attached to a central portion of the standard. The tilting-latch comprises a case 9, within which the latch proper 10 is pivoted by a pin 1¹. The nose 10¹ of the latch protrudes through an opening 9¹ of the case. Tension is given the latch 10 by an expansion spring 1² housed within the lug 9² of the case and engaging a socket of the latch. A handle 10² of the said latch provides a grip for releasing the nose when engaged.

It is obvious that this arrangement provides a tilting drawing-board entirely practical and desirable, one that is self-locking, and one which, furthermore, can be speedily operated by even a very young person.

While a drawing-board and drawing table standard equipped with the device thus far detailed will rotate freely and will not slip in ordinary use in whatsoever position it is left, it is desirable that some means other than sighting with the eye should be provided for giving one edge and one end of the drawing-board a horizontal alignment with the body of the artist (positions most used) when he desires such a placement. With this object in view, therefore, I have provided my invention with the revolving-latch shown in Figures 1, 6, and 7, and formed notches 1¹ and 1² in the periphery of the disc-plate to receive the nose of said latch. The latch-bolt 12 has a tapered nose which fits similarly shaped notches 1¹ and 1² in the rim of the disc-plate 1, such notches being placed at right angles to one another. The latch-bolt 12 is oscillatingly confined by U-shaped brackets 13, and these brackets are screwed to the drawing-board, with plates 14 intervening. The plates 14 offset

the latch-bolt from the drawing-board so as to allow an expansion spring 15 to encompass the said latch-bolt, the ends of the spring being stayed by the rear bracket and the knob 16, which connects with the latch-bolt just back of the forward bracket.

It will be apparent that, in operation, the nose of the latch-bolt will automatically spring into the first notch of the disc-plate appearing opposite it, as the drawing-board is revolved, thus giving one of two opposed right angular positions for the board. If the other position is desired, the operator only has to withdraw the latch-bolt by pulling back the knob of the bolt, then release the knob and rotate the board to the next notch.

Having thus described my invention, what I claim as new is:—

20 In a connecting device for adjustable drawing-boards and drawing table stand-

ards, the combination of a disc-plate pivoted at its center to the drawing-board back, a tension-plate fixed to said drawing-board between it and said disc-plate, brackets fastened to said drawing-board and projecting over and around the rim of said disc-plate, a spring-actuated latch attached to said drawing-board and engaging notches in the periphery of said disc-plate, said disc-plate supporting brackets capable of being pivoted to the standard of the drawing table, one of said brackets bearing openings engaging a locking device attached to said standard.

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

CHELSEA C. FRASER.

Witnesses:

WILLIAM J. MILLER,
FRED VAN HORN.