Oct. 15, 1946. T. KRAMER 2,409,570

TIE RACK

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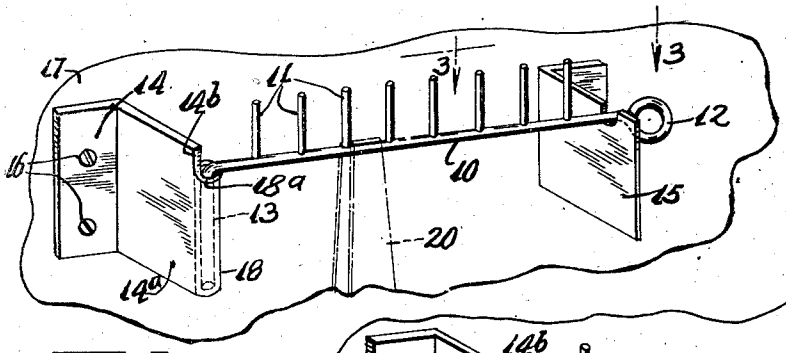


Fig. 1.

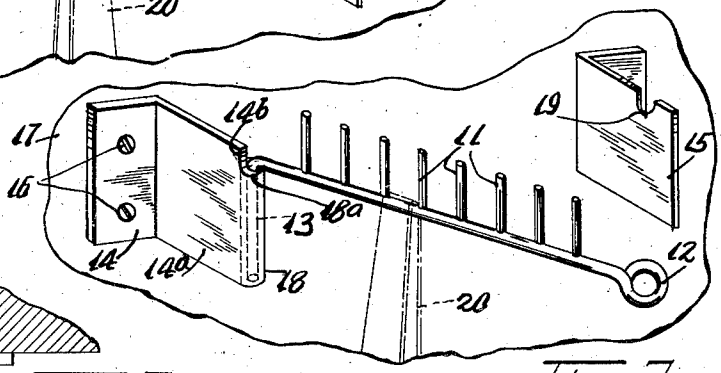


Fig. 2.

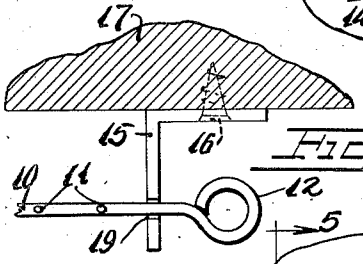


Fig. 3.

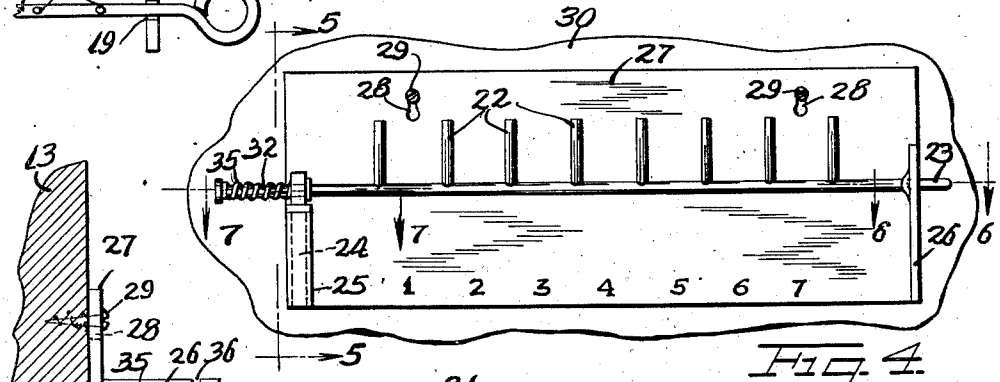


Fig. 4.




Fig. 5.

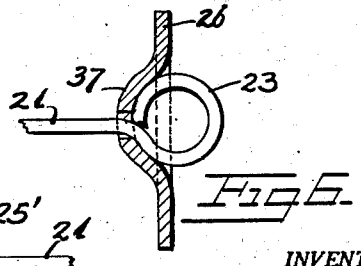


Fig. 6.

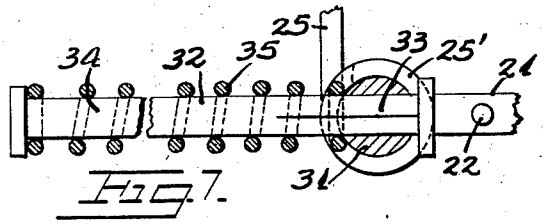


Fig. 7.

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## TIE RACK

Tobias Kramer, Brooklyn, N. Y.

Application June 30, 1944, Serial No. 542,871

5 Claims. (Cl. 211—96)

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This invention relates to new and useful improvements in a tie rack.

More particularly, the invention proposes an improved tie rack which is characterized by a horizontal tie rack bar having vertical pins intermediate of its ends and a loop portion at its outer end.

It is proposed that the inner end of said bar be provided with a vertical stem. A support lug is supplied for turnably supporting said vertical stem for turnably supporting said bar. It is proposed that another support lug be provided for releasably holding said loop portion of said bar.

The invention contemplates numerous modified forms. In one such form, the support lugs are formed by separate brackets. In another form they are arranged on a common bracket.

Still further an arrangement is proposed whereby the horizontal tie rack with the vertical pins may be turned so that the pins are directed upwards or downwards, as desired.

Another object of the invention is the construction of a device as mentioned which is simple and durable and which may be manufactured and sold at a reasonable cost.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing forming a material part of this disclosure:

Fig. 1 is a perspective view of a tie rack embodying this invention.

Fig. 2 is a perspective view of the tie rack shown in Fig. 1 in an open position.

Fig. 3 is a fragmentary horizontal sectional view taken on the line 3—3 of Fig. 1.

Fig. 4 is a front elevational view of a tie rack constructed in accordance with a modified form of this invention.

Fig. 5 is a vertical sectional view taken on the line 5—5 of Fig. 4, but illustrated with the tie rack bar swung open.

Fig. 6 is a fragmentary horizontal sectional view taken on the line 6—6 of Fig. 4.

Fig. 7 is a fragmentary horizontal sectional view taken on the line 7—7 of Fig. 4.

The tie rack, in accordance with that form of the invention illustrated in Figs. 1–3, includes a horizontal tie rack 10 having vertical pins 11 intermediate of its end and a loop portion 12 at its outer end. This loop portion 12 is turned

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from the material of the tie rack bar 10. A vertical stem 13 connects with the inner end of the bar 10. This stem 13 is bent from the material of said tie rack bar 10.

A support lug 14 is provided for turnably supporting said stem 13 for turnably supporting the bar 10. Another support lug 15 is provided for releasably holding the loop portion 12 of the said bar 10. These lugs 14 and 15 are in the nature of brackets which are secured by fastening elements 16 to a vertical article 17, such as a door, wall or the like. The lug 14 has its outer end 14a formed with a tubular portion 18 into which the vertical stem 13 turnably engages. The lug 15 has a slot 19 extended inwards from its top edge into which the tie rack bar 10 engages when the tie rack is closed. The dot and dash lines 20 schematically illustrate a tie in position on the tie rack. The tubular portion 18 has a cutaway portion at its upper end 18a to permit the free opening of the bar 10 until the latter is in engagement with the abutment 14b of the lug 14.

Fig. 1 illustrates the tie rack closed. It may be opened by manually gripping the loop portion 12 and lifting the end of the tie rack bar 10 so that it disengages from the slot 19. The flexibility of the bar 10 is depended upon to permit the loop portion 12 to be lifted as stated. The tie rack bar 10 is now free to be swung outwards, as illustrated in Fig. 2. This makes it convenient to stack ties in position on the tie rack.

In Figs. 4–7 a modified form of the invention is disclosed. In this form the tie rack includes a horizontal tie rack bar 21 having vertical pegs 22 intermediate of its ends and a loop portion 23 at its outer end. A vertical stem 24 is connected with and is capable of supporting the tie rack bar 21. A support lug 25 is provided for turnably supporting the stem 24. Another support lug 26 is for releasably holding the loop portion 23 of said bar 21.

The lugs 25 and 26 are integral with a common bracket 27. This bracket 27 has bayonet slots 28 by which it is shown mounted upon head screws 29 or other fastening elements mounted on a wall or door 30. The vertical stem 24 has a square horizontal socket 31 at its top end. The adjacent end of the tie rack bar 21 has a shank portion 32 connected with said socket 31. This shank portion 32 has a square section 33 at its inner end and a round section 34 at its outer end. The square section 33 normally slidably engages the square horizontal socket 31 so that the tie rack bar 21 is non-rotative. A spring 35 is

mounted upon the shank 32 and operates between the adjacent faces of the stem 24 and an enlarged head formed on the end of the horizontal bar 21 to normally urge the shank laterally in one direction for engaging the square section 33 thereof with the square horizontal socket 31. The tie rack bar 21 may be pulled laterally so that the shank 32 moves through the square horizontal socket 31 so that its round portion 34 engages within the square socket 31 and then the tie rack bar 21 is free to be turned so that the pins 22 may be directed vertically downwards.

The lug 26 is formed with a slot 36 entered inwards from its top edge. This slot 36 communicates with a horizontally recessed portion 37 into which the loop 23 is resiliently urged by the action of the spring 35. This horizontal recessed portion prevents the loop 23 from turning and correspondingly locks the tie rack bar 21 fixedly in its closed position. The lug 25 has a tubular outer end 25' which forms a socket in which the vertical stem 24 is free to turn.

The operation of this form of the invention is as follows:

In Fig. 4 the tie rack is shown closed. It may be opened by manually gripping the loop portion 23 and pulling the tie rack 21 slightly towards the right. The loop portion 23 is thus disengaged from the horizontal recess 37 and then the bar 21 may be flexed upwards to disengage it from the slot 36. Now the tie rack 21 is free to be pivoted outwards. The stud 24 merely turns in the socket 25'.

In the open position of the tie rack, ties may be engaged on and removed from the tie rack bar 21. If it is desired to shift the position of the ties upon the tie rack bar without lifting them off the bar, it is merely necessary that the loop portion 23 be pulled outwards so that the square section 33 of the shank 32 comes out from the horizontal square socket 31. Now the round portion 34 is within the socket and the tie rack bar 21 may be turned through 180°. The pins 22 will now be directed downwards. Then the ties on the tie rack bar may be shifted to selected position without being stopped by the pins 22.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

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

1. A tie rack, comprising a horizontal tie rack bar having vertical pins intermediate of its ends and a loop portion at its outer end, a vertical stem having a square horizontal socket, a shank connected with the inner end of said bar and having a square section slidably engaging said socket and also having an adjacent round section, a support lug turnably supporting said stem, another support lug having means for releasably holding said loop portion of said bar and having a noncircular recess, resilient means for urging said shank laterally for normally engaging said square section in said socket and said loop portion in said recess.

2. A tie rack, comprising a horizontal tie rack bar having vertical pins intermediate of its ends and a loop portion at its outer end, a vertical stem having a square horizontal socket, a shank connected with the inner end of said bar and having a square section slidably engaging said socket and also having an adjacent round section, a support lug turnably supporting said stem, another support lug having means for releasably holding said loop portion of said bar and having a non-circular recess, resilient means for urging said shank laterally for normally engaging said square section in said socket and said loop portion in said recess, said support lugs being connected with a common bracket.

3. A tie rack, comprising a horizontal tie rack bar having vertical pins intermediate of its ends and a loop portion at its outer end, a vertical stem having a square horizontal socket, a shank connected with the inner end of said bar and having a square section slidably engaging said socket and also having an adjacent round section, a support lug turnably supporting said stem, another support lug having means for releasably holding said loop portion of said bar and having a non-circular recess, resilient means for urging said shank laterally for normally engaging said square section in said socket and said loop portion in said recess, said support lugs being connected with a common bracket, and means for supporting said bracket on a door or wall.

4. A tie rack, comprising a horizontal tie rack bar having vertical pins intermediate of its ends and a loop portion at its outer end, a vertical stem having a square horizontal socket, a shank connected with the inner end of said bar and having a square section slidably engaging said socket and also having an adjacent round section, a support lug turnably supporting said stem, another support lug having means for releasably holding said loop portion of said bar and having a non-circular recess, resilient means for urging said shank laterally for normally engaging said square section in said socket and said loop portion in said recess, comprising a spring coaxially mounted on said shank and urging said shank in one direction.

5. A tie rack, comprising a horizontal tie rack bar having vertical pins intermediate of its ends and a loop portion at its outer end, a vertical stem connected with the inner end of said bar, a support lug turnably supporting said stem for turnably supporting said bar, and another support lug having means for releasably holding said loop portion of said bar, said support means, comprising a slot into which said tie rack engages, and said slot connecting with a recessed portion and receiving said loop portion.

TOBIAS KRAMER.