March 30, 1926. 1,579,002

A. A. KOCH

VISE POST LOCK

Filed Dec. 27, 1924

Fig. 1.

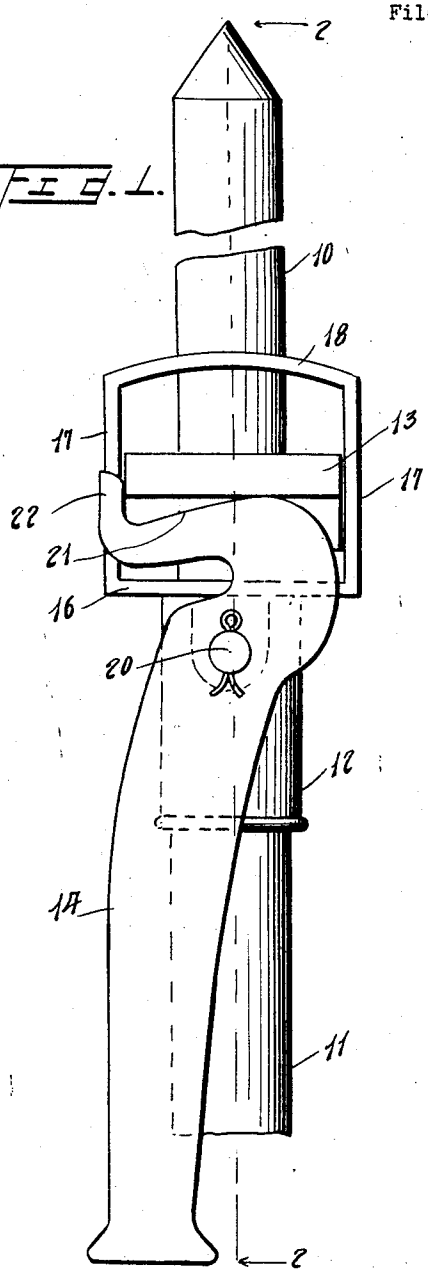
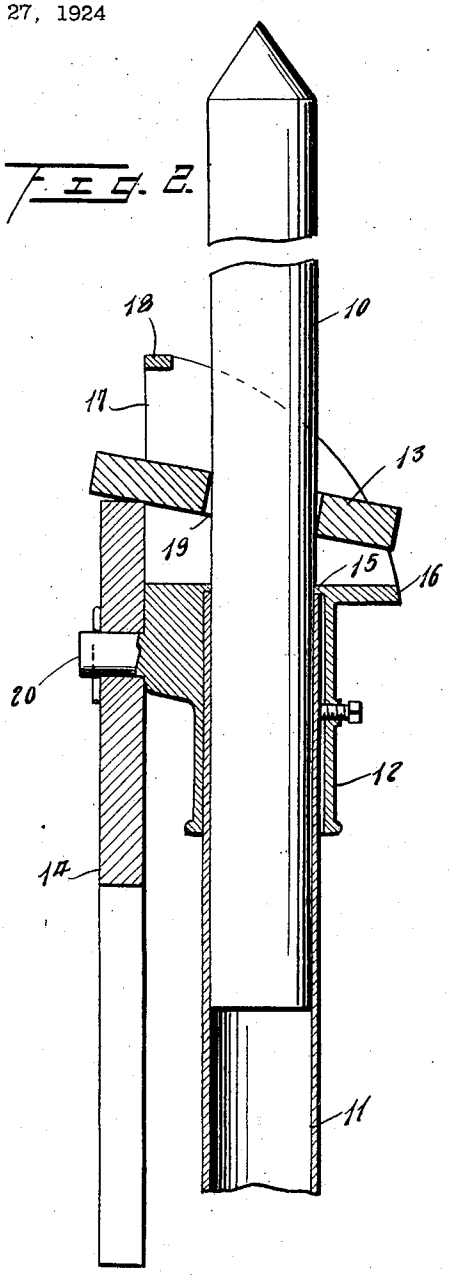


Fig. 2.



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UNITED STATES PATENT OFFICE.

ARTHUR A. KOCH, OF ALBERT LEA, MINNESOTA.

VISE-POST LOCK.

Application filed December 27, 1924. Serial No. 758,480.

To all whom it may concern:

Be it known that I, ARTHUR A. KOCH, a citizen of the United States, residing at Albert Lea, in the county of Freeborn and State of Minnesota, have invented certain new and useful Improvements in Vise-Post Locks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to fastening means for a post which is utilized as a support for a vise, the fastening means also operating to forcibly separate the post sections and to lock the same in the adjusted position when the post is properly positioned to support the vise in working position.

Other objects and advantages will be apparent and suggest themselves as the nature of the invention is understood.

While the drawings illustrate an embodiment of the invention it is to be understood that in adapting the same to meet different conditions and requirements, various changes in the form, proportion and minor details of construction may be resorted to without departing from the nature of the invention.

Referring to the accompanying drawings forming a part of the specification,

Figure 1 is a front view of a vise post lock embodying the invention showing the same applied, and

Figure 2 is a detail sectional view on the line 2—2 of Figure 1.

Corresponding and like parts are referred to in the following description and designated in both views of the drawings by like reference characters.

The numerals 10 and 11 designate the sections of the vise post, said sections having a telescopic arrangement to admit of lengthening or shortening the post as required.

The locking means include a sleeve 12 a post grip 13 and an operating lever 14. The sleeve 12 obtains a snug fit upon the upper end of the post section 11 and is preferably supported thereon by an inner shoulder 15. The sleeve 12 is provided at its upper end with a head which comprises a base 16, spaced uprights 17 and a connecting cross piece 18. The post grip 13 preferably consists of a plate of a width to obtain a snug fit between the uprights 17, said plate having an opening 19 to receive the post section 10 and said opening being of a larger diameter than the diameter of the post section 10 so that when the plate is elevated at one end the post section 10 will be firmly gripped between diagonally opposite portions of the plate bordering upon the opening 19 as indicated most clearly in Figure 2 with the result that the section 10 is elevated and its upper end caused to firmly engage the ceiling or other overhead support. It will also be apparent that the post grip 13 is engaged, and prevented from turning, by the spaced uprights 17 and that the post 10 will also be held from rotation on a vertical axis by the said post grip.

The operating lever 14 is mounted upon a stud 20 projecting laterally from an enlargement at the upper end of the sleeve 12 and its active end is provided with a cam 21 which engages the post grip 13 and elevates the adjacent end thereof, and this cam 21 has a terminal upstanding portion 22 forming a stop which engages an edge of the post grip 13 and limits the movement of the lever when the post grip is elevated. The stop 22 prevents overthrowing of the lever 14 when passing the dead center in the lifting of the post grip 13, thereby holding the lock in the required adjusted position.

What is claimed is:—

1. A vise post operating and locking means, the same comprising a sleeve adapted to be fitted to a section of the post, a post grip and an operating cam lever mounted upon said sleeve on a transverse axis and adapted to coact with the post grip, said lever having a stop to engage the post grip and prevent overthrowing of the lever when operating the post grip.

2. A vise post device comprising post sections in telescopic relation, a sleeve attachable to one end of one of said sections, a cam lever secured to said sleeve on a transverse axis, a grip member surrounding the other post section and engageable by said lever for tilting to grip the latter post section, and means integral with and rising from the sleeve to guide the post grip and maintain it against turning on a vertical axis.

In testimony whereof I affix my signature.

ARTHUR A. KOCH.