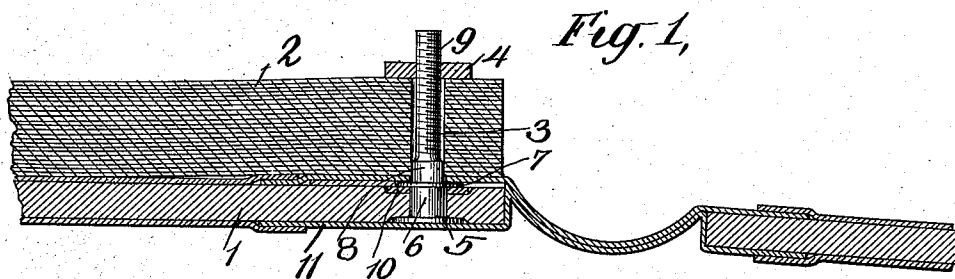
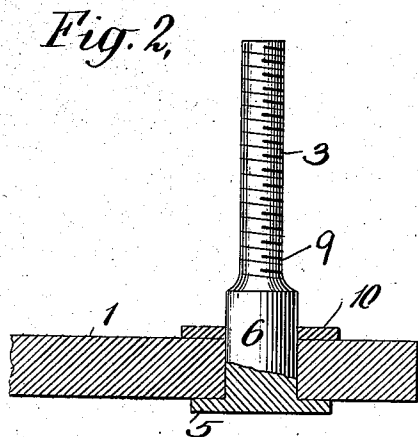
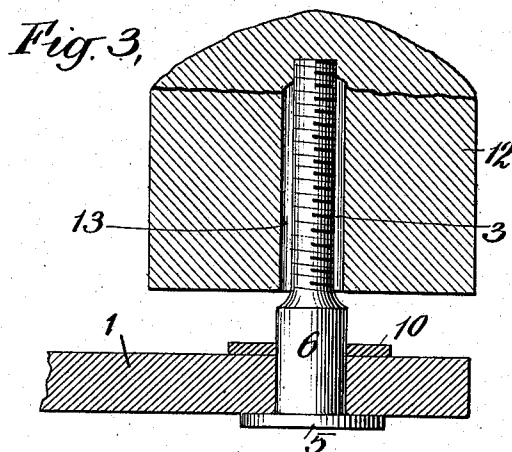
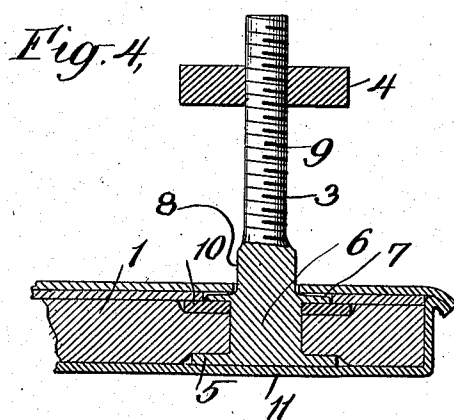


No. 868,067.

PATENTED OCT. 15, 1907.

M. H. BERRY.
REMOVABLE COVER.
APPLICATION FILED SEPT. 4, 1906.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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REMOVABLE COVER.

No. 868,067.

Specification of Letters Patent.

Patented Oct. 15, 1907.

Application filed September 4, 1906. Serial No. 333,137.

To all whom it may concern:

Be it known that I, MARK H. BERRY, a citizen of the United States of America, and a resident of the city, county, and State of New York, have invented certain
5 new and useful Improvements in Removable Covers, of which the following is a specification.

My invention relates to improvements in books and removable covers therefor and the art of making the same.

10 My invention relates more particularly to the means for detachably securing removable portions of a book and to the art of producing said means.

The object of my invention is to produce a book of this class which shall be simple and effective in its construction and operation and especially one which shall
15 be capable of giving long service and withstanding rough usage.

My object is further to provide a novel method whereby books of this class may be made economically and uniformly.

20 My invention consists in providing a novel form of stud and a novel means for securing the stud to the cover of a book for the purpose of holding loose leaves and the like, such as blank checks, which have previously been perforated to receive the studs.

25 My invention consists further in a novel method for forming the holding means by which the stud is secured to the cover.

In the drawings accompanying and forming a part of this specification, Figure 1 is a section of a book embodying my invention; Fig. 2 is a section showing the manner of placing the stud in the cover preparatory to its being secured therein; Fig. 3 is a view showing the method of assembling the stud and washer with the
30 board which forms part of the cover, preparatory to forming the flange upon the stud to hold the washer in place; Fig. 4 is a sectional view corresponding to Fig. 3 showing the parts after said operation is performed.

The reference characters are used in the same sense throughout the drawings and the specifications.

40 Numeral 1 represents the board forming part of the cover of a book; 2 represents a block of checks or other leaves provided with perforations adapted to receive the stud 3; 4 is a nut on the stud 3 which holds the block of leaves 2 in place. The stud 3 is provided with a head 5, preferably made integrally with the stud, a body portion 6 of less diameter than the head, a flange or enlargement 7 of greater diameter than the body portion, a reduced cylindrical portion 8 adjacent to the flange 7, whose diameter is less than that of the body portion and equal to or greater than that of the threaded extension 9. Between the head and the flange is a washer 10 of greater diameter than the flange. Both

the head 5 and the washer 10 are preferably embedded in the board 1 so that their outer surfaces are flush with
55 the surfaces of said board. It is preferable to have the stud secured to the board before the covering material 11 is put onto the covers 1 so that the head and the washer shall not be exposed.

Heretofore it has been the practice in books of this class, to form a shoulder intermediate the ends of the stud, which shoulder would correspond in position to the washer 10, and then to form some kind of a head on the stud on the opposite side of the board, by riveting a washer thereon or by forming prongs on the end of the stud and embedding them in the board. I have found this method to be objectionable because of its insecurity and especially because the strain at the lower end of the stud, or such strain as would be produced by trying to pull the stud upward, is much more severe
60 than the strain which would be produced by forcing the stud down through the board. By means of my construction it will be seen that the head 5 may be proportioned to have adequate strength for any use, at the same time the flange 7 has abundant strength to hold the stud rigidly in position.

The method I employ in carrying out my invention is as follows: Studs are formed in the manner shown in Figs. 2 and 3, having a head 5 and body portion 6 and a threaded end 9, the body portion being somewhat larger in diameter than the threaded end 9. A punch or die 12, having a central bore 13 adapted to pass over the threaded end 9, preferably somewhat greater in diameter than the threaded end, but of a diameter smaller than the body portion 6, is then driven or forced down over the stud in such a way as to form the flange 7 by its shearing or crushing action. The punch during this operation is forced far enough to embed the head 5 and the washer 10 into the board 1 as far as desired.

90 Having thus described my invention, what I claim is:

1. A stud having a head, a body portion of less diameter than said head, a flange formed integrally on said body portion, a threaded extension beyond said body portion of less diameter, and a washer between said flange and said head.
2. A stud having a head, a body portion of less diameter than said head, a flange formed upon said body portion of greater diameter, and an extension of said body portion beyond said flange having a less diameter, than said body portion, and a washer between said flange and said head.
3. A binding post or stud having a head, a body portion adjacent to and of less diameter than said head, a flange on said body portion, an extension of less diameter than said body portion and a washer between said head and said flange.
4. A stud having a head, a body portion of less diameter than said head, a flange upon said body portion and an extension of less diameter than said body portion.

5. A binding post for removable covers having a head, a body portion adjacent to the head, an extension of less diameter than said body portion and a flange formed upon said body portion by forcing over it a die of less diameter than said body portion.
6. The art of securing a washer to a binding post which consists in forcing a die of less diameter than the body portion of the binding post over said body portion against said washer, thereby producing a flange or projection upon said body portion adjacent to said washer.
7. The art of forming a retaining flange upon a stud or binding post having a body portion and an extension of less diameter than said body portion, which consists in forcing a die, having an opening of less diameter than said body portion adapted to receive said extension, over said extension upon said body portion.
- In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.
- MARK H. BERRY.
- Witnesses:
C. A. CANTON,
ERNEST MILLER.