

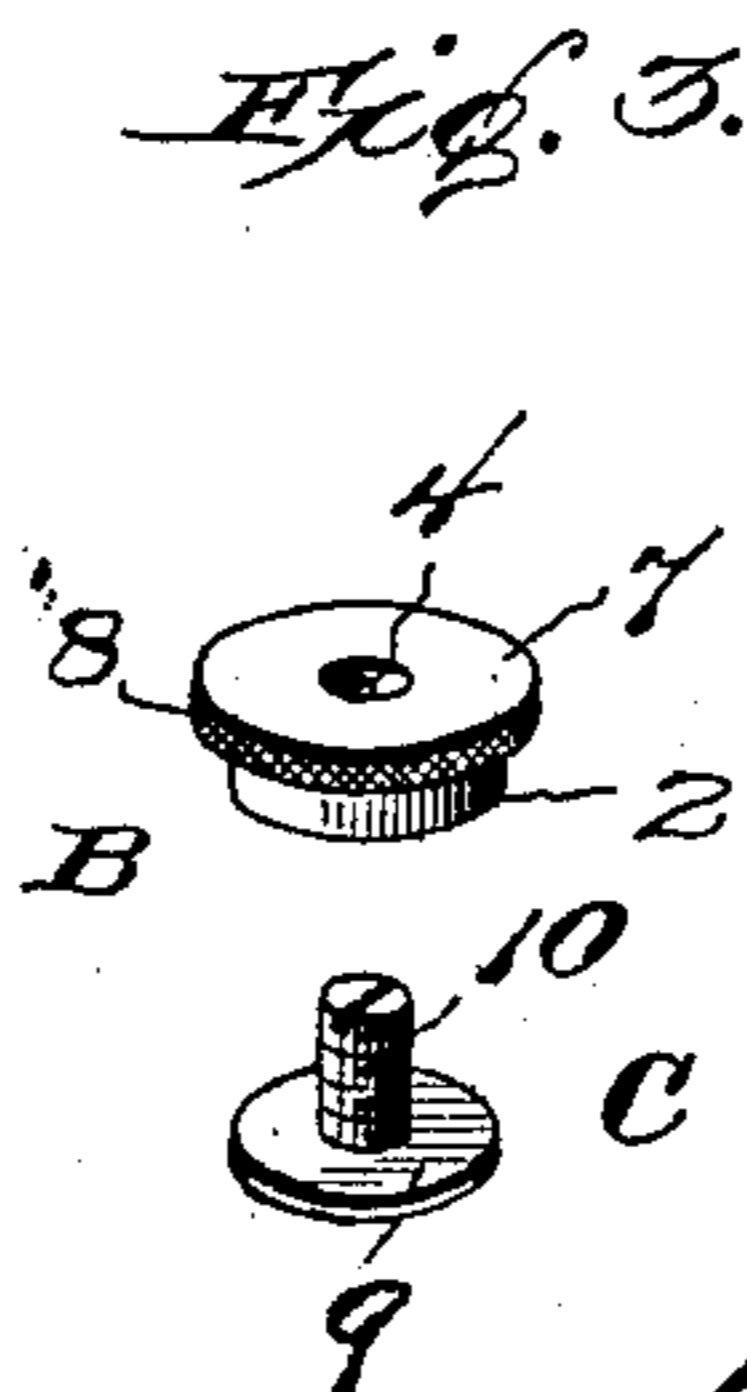
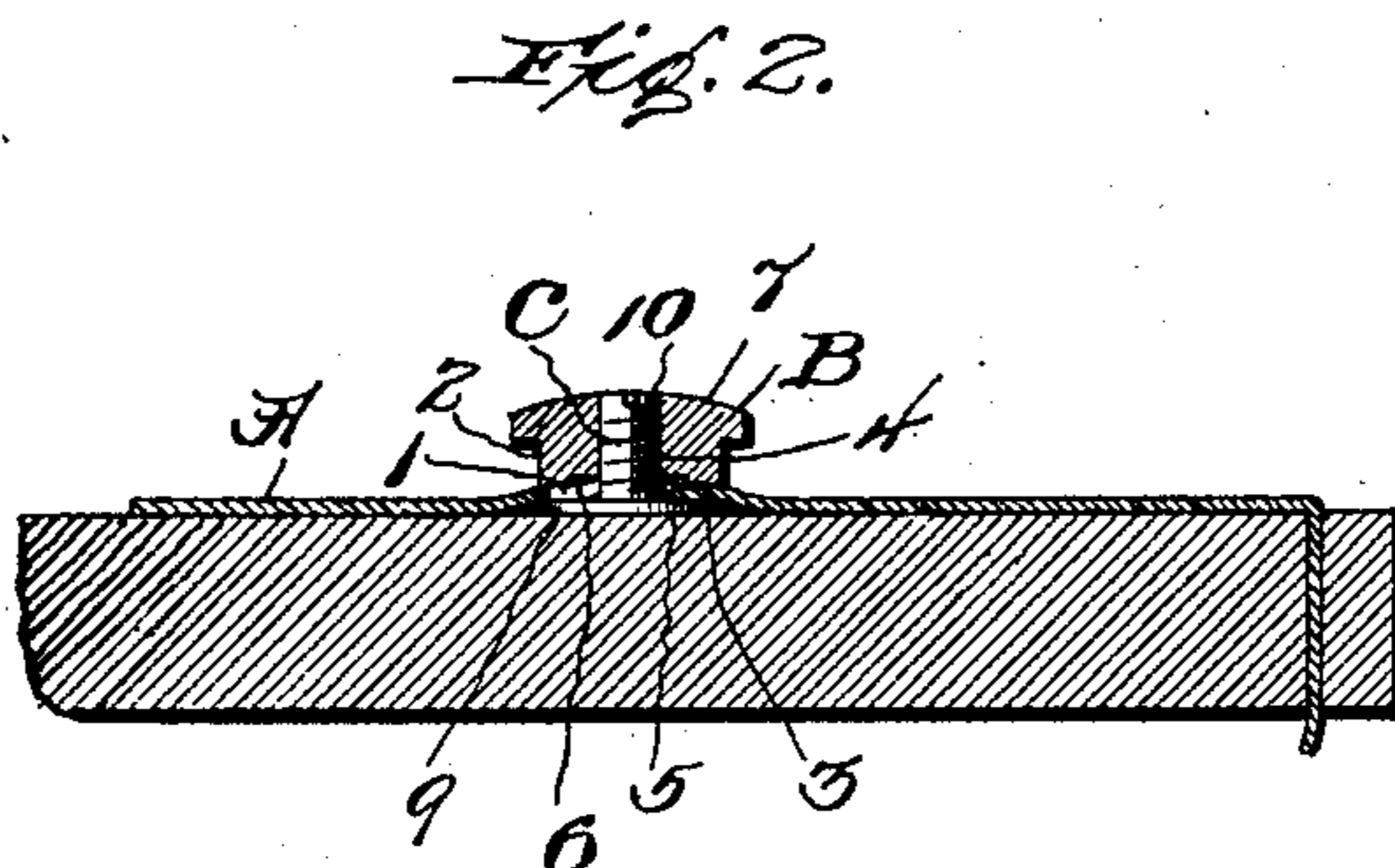
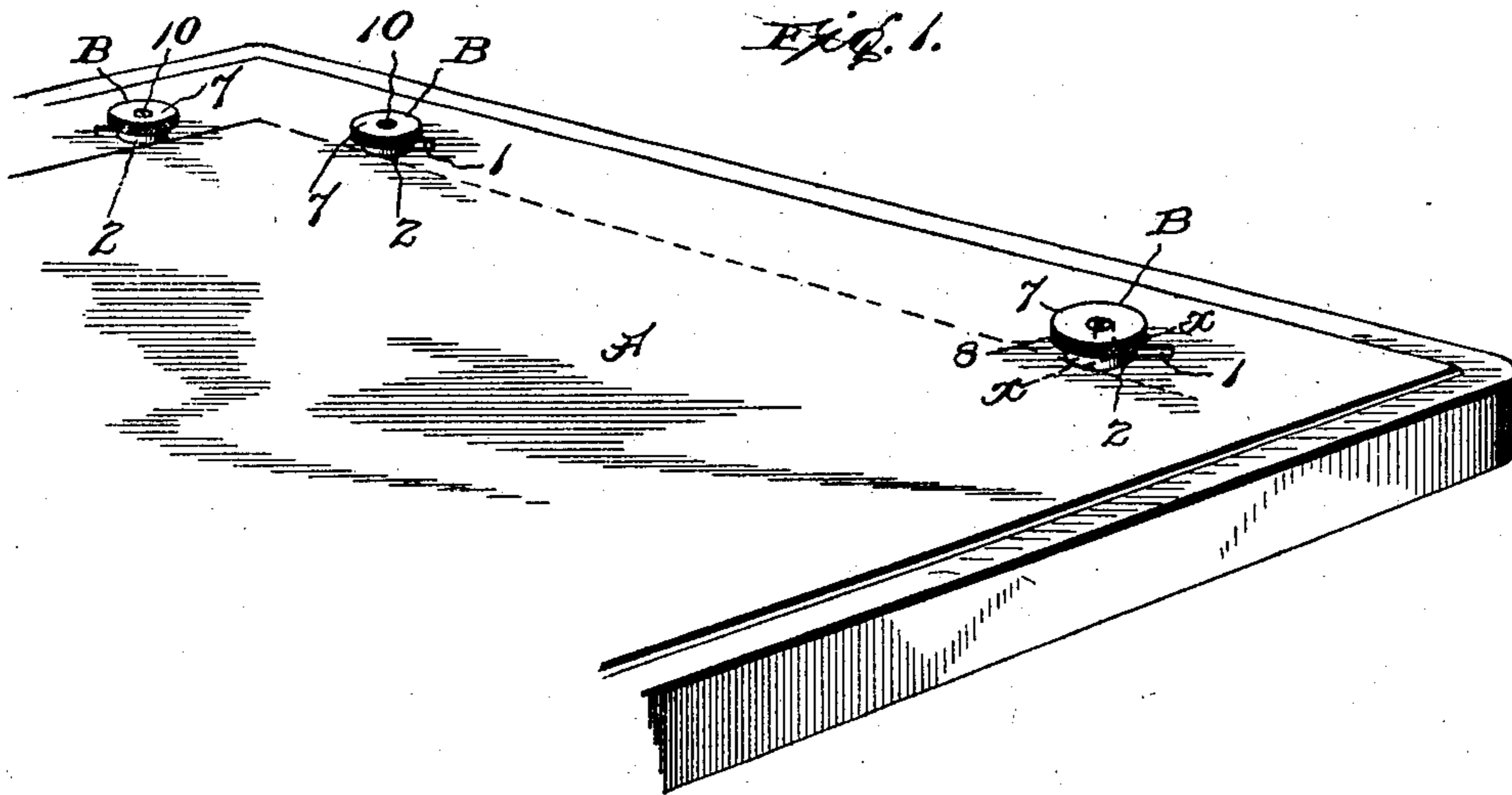
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W. H. BRADLEY.
FEEDING GAGE FOR PRINTING PRESSES.

APPLICATION FILED JAN. 10, 1903.

NO MODEL.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM H. BRADLEY, OF PITTSFIELD, MASSACHUSETTS.

FEEDING-GAGE FOR PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 745,318, dated December 1, 1903.

Application filed January 10, 1903. Serial No. 138,450. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. BRADLEY, a citizen of the United States, and a resident of Pittsfield, in the county of Berkshire and State of Massachusetts, have invented a new and useful Improvement in Feeding-Gages for Printing-Presses, of which the following is a specification.

My invention relates to an improvement in feeding-gages for printing-presses of the platen type, and more particularly to that class of feeding-gages which are adjustably secured to the tympan-paper and may be adjusted with respect to the sheets to be fed.

The objects of my invention are to provide a feed-gage adjustably attachable to tympan-sheet and adapted to accurately register the sheets to be fed, which gage shall be easily attached to and detached from the tympan-sheet, and one which can be secured thereto without the possibility of its once slipping after being secured, as well as one which will not warp or wrinkle the tympan-sheet or in any wise injure the tympan-packing, and yet can be adjusted with respect to the size and position of the fed sheets without being removed from engagement with the tympan-sheet.

My invention comprises, in combination with a tympan-sheet, a head or stud and a shank removably secured thereto.

In the accompanying drawings, Figure 1 is a perspective view of my invention secured to the tympan-sheet. Fig. 2 is a vertical section taken on line *xx* of Fig. 1, and Fig. 3 is a view of the parts detached.

A represents the tympan-sheet, of the usual conformation and provided with Y-shaped slots 1 1.

B indicates the head or stud of my improved feed-gage. As shown, this stud consists of a circular body portion 2, concave on its lower face 3 and provided with a screw-threaded bore or aperture 4, located centrally of the stud. Concentric with the bore or aperture is a recessed portion 5, forming a shoulder 6, the outer edge of which merges into the concave lower face 3. The body portion 2 supports a circular head 7 of larger diameter than said body portion, and which head may be provided with a milled or knurled circum-

ference 8 for a purpose hereinafter to be set forth. This head is also provided with an aperture coincident with the aperture in the body portion. A shank C completes the feed-gage. This shank comprises a base 9 circular or disk-like in form, if desired, not eccentric and provided with a threaded stem 10, having a kerf in its upper end for the reception of a screw-driver or other implement, the stem being received in the threaded bore 4 of the stud.

In operation the shank is inserted through the slot 1 in the tympan-sheet, the base 9 resting upon and supported by the platen, the stem projecting through the slot and above the tympan-sheet. The stud is then secured upon the stem, the concave lower face of the body portion, together with the annular recess, bearing against the material of which the tympan-sheet is composed, the body portion being of greater diameter than the width of the Y-shaped slot and biting thereinto, or, in other words, the tympan-sheet is securely clamped between the base of the shank portion and the lower face of the body portion, the tympan-sheet being forced into the concavity therein and into the annular recess. When it is desired to change the gage to enable it to register fed sheets of different size, the stud is merely loosened on the stem and the gage shifted bodily to the desired position, where it is again secured in place. The object fulfilled by the Y-shaped slots is to permit a wider range of adjustment than would otherwise be possible. The fed sheets contact with the body portion of the gage and are prevented from accidental slipping over the gage or other movement by means of the head, which extends beyond the body portion. The object of the knurled edge (by which the gage is loosened and moved in the slot and the stud loosened from the shank) is to enable the operator to more easily loosen the device from and clamp it to the tympan-sheet.

From the foregoing it will be seen that my improved gage is strong and durable, simple, and easily operated, the two portions of the gage, (the stud and the shank,) set tightly and firmly together at the outer edge, by means of the concaved portion before de-

scribed, preventing the fed sheets from slipping beneath the stud, and the gage is easily and quickly adjusted.

It is evident that slight changes might be made in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do not wish to limit myself to the exact construction herein shown, but may wish from time to time to make such changes as are herein referred to in either form or arrangement, or both, of the several parts herein described.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a tympan-sheet having slots formed therein, of a feed-gage comprising a stud and a shank, the stud consisting of a body portion, the lower face of which is concaved and of a diameter greater than the width of the slot in the tympan-sheet, a head of greater diameter than the body portion carried thereby, the shank consisting of a base and a stem extending therefrom, the stem removably received in the body portion of the stud, the tympan-sheet being forced into the concavity in the lower face of the body portion of the stud.
2. The combination with a tympan-sheet having a slot formed therein, of a feed-gage comprising a stud and a shank, the stud consisting of an apertured body portion of greater diameter than the width of the slot, the lower face of the body portion being concaved and having a recess formed centrally of the concavity, and a head of greater diameter than the body portion carried by the body portion, the shank comprising a base and a stem extending therefrom, the stem received within the aperture in the body por-

tion of the stud, that portion of the tympan-sheet on either side of the slot adapted to be received and tightly held in the recess and concavity in the lower face of the body portion.

3. The combination with a tympan-sheet having a Y-shaped slot formed therein, of a feed-gage comprising only a stud and a shank, the stud consisting of an apertured body portion the lower face of which is concaved and of greater diameter than the width of the slot, a head of larger diameter than the body portion and carried thereby, the shank comprising a base and a stem, the latter receivable in the apertured stud, the tympan-sheet being tightly received in the concavity in the stud, the periphery of the lower face of the stud bearing tightly against the tympan-sheet.

4. The combination with a tympan-sheet, of a gage composed of but two members, a stud and a shank, the lower face of the stud being concaved, the shank receivable in the stud, the periphery of the lower face of the stud bearing tightly against the tympan-sheet.

5. The combination with a tympan-sheet having an aperture therein, of a gage comprising a stud and a shank, the lower face of the stud being concaved, the tympan-sheet being tightly received in the concaved face of the stud, the outer lower edge of the stud bearing tightly against the tympan-sheet.

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

WILLIAM H. BRADLEY.

Witnesses:

ROSE L. CROWLEY,
JOSEPH WARD LEWIS.