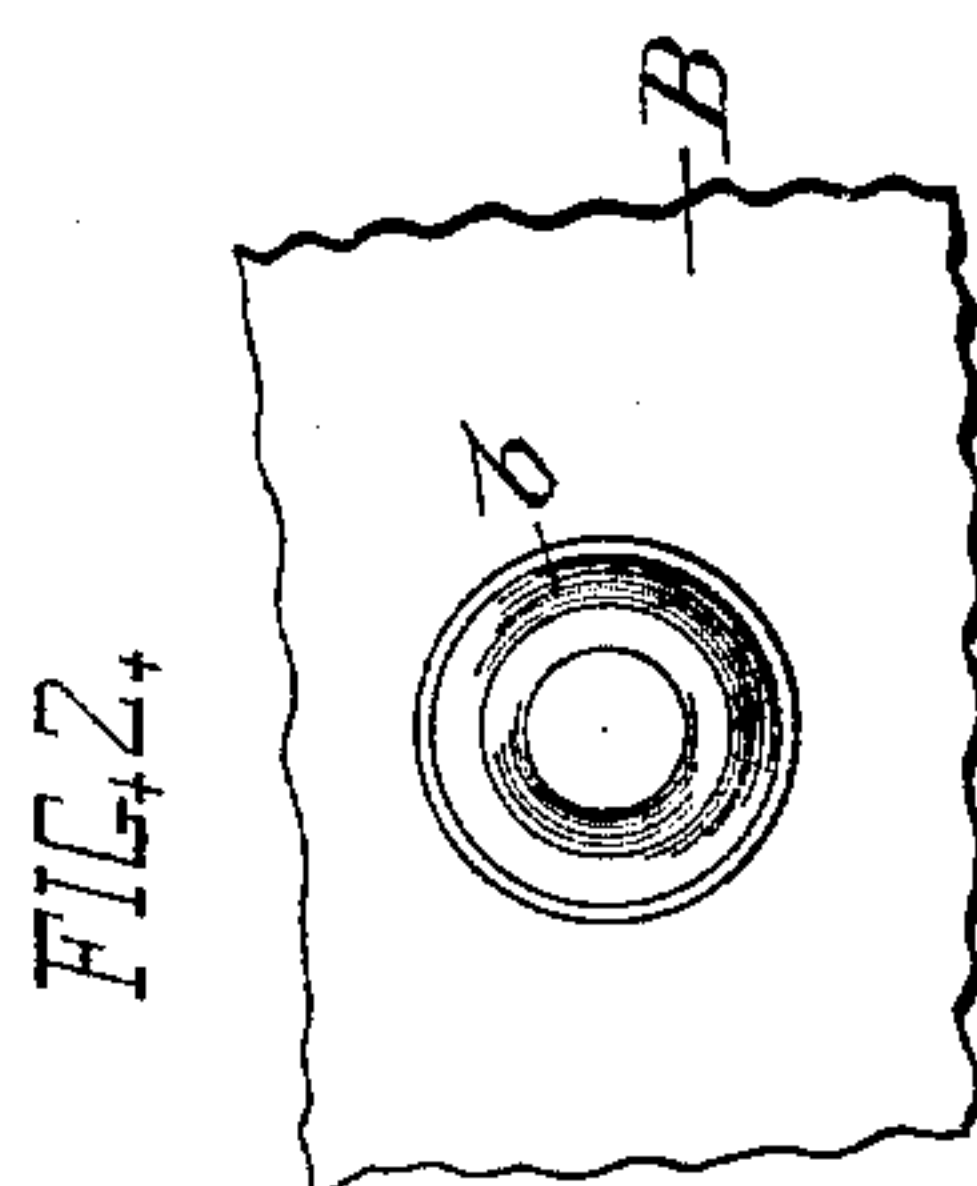
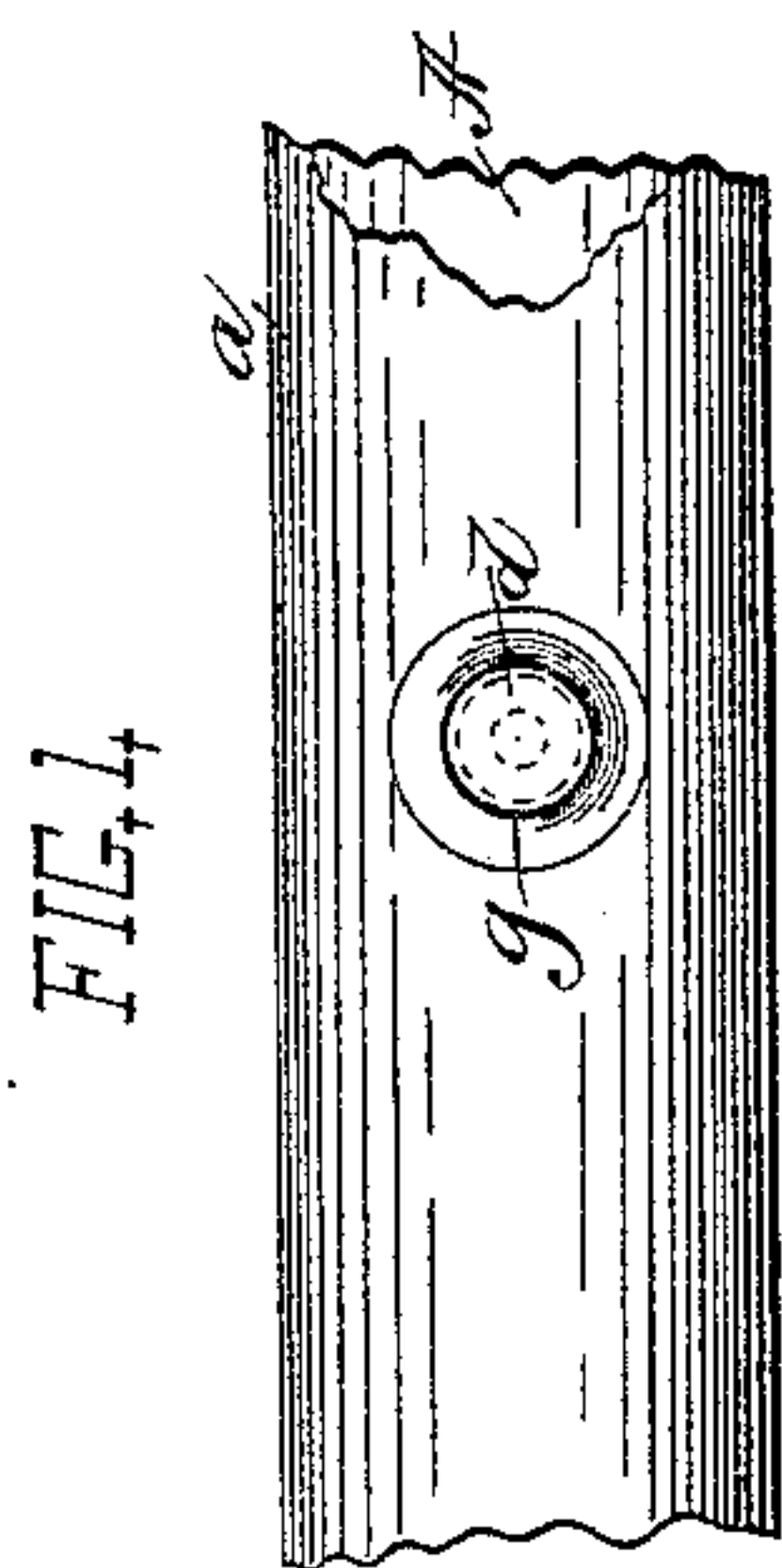
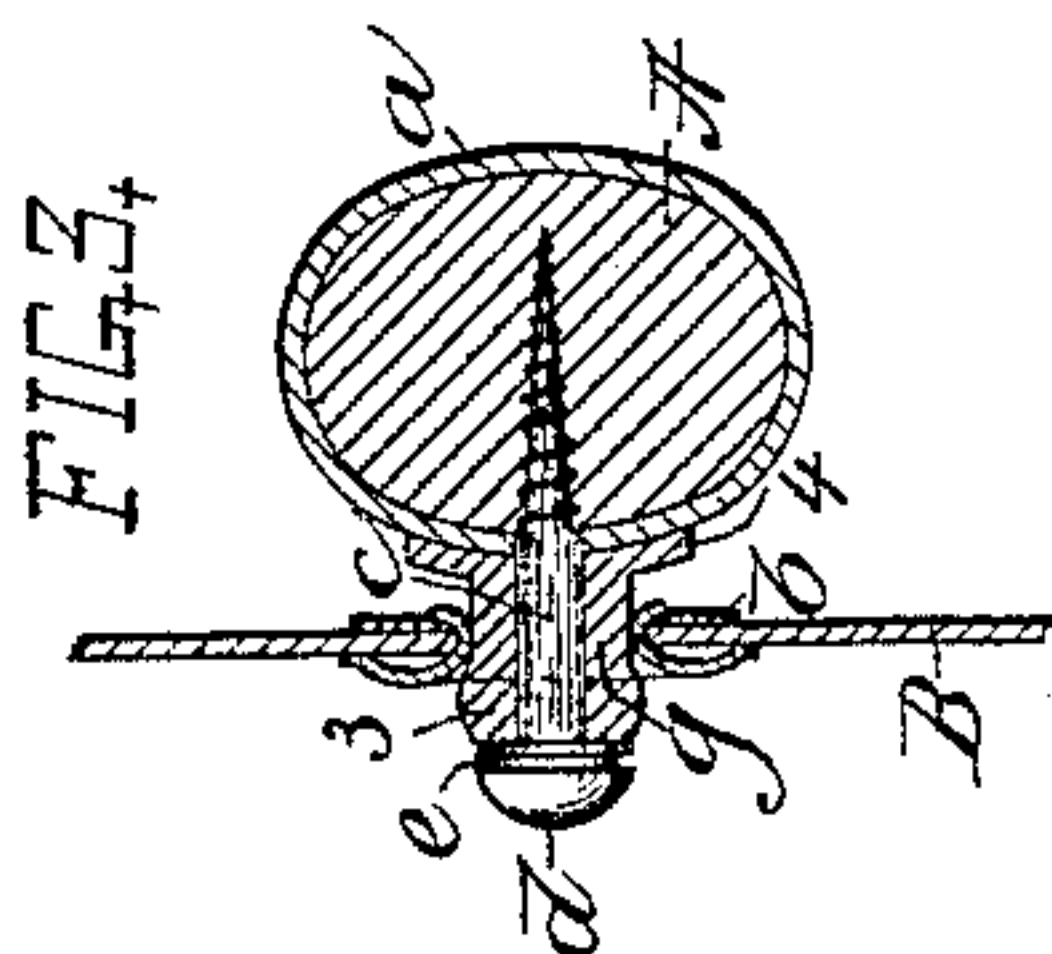
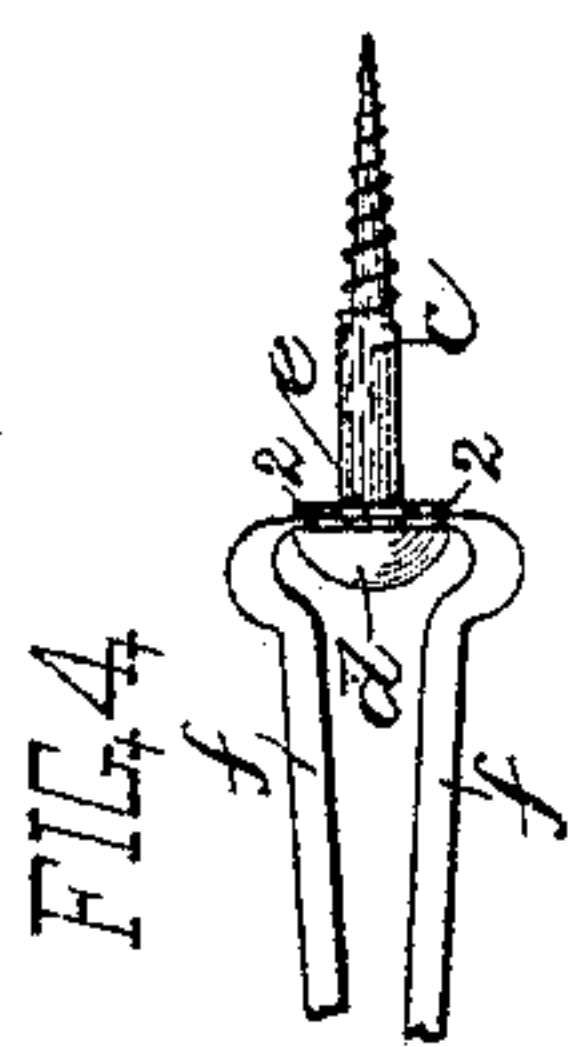


(No Model.)

C. O. & L. F. UPHAM.  
HEADED KNOB FOR CARRIAGES, &c.

No. 454,549.

Patented June 23, 1891.



WITNESSES,

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# UNITED STATES PATENT OFFICE.

CHESTER O. UPHAM AND LAWYER F. UPHAM, OF HYDE PARK,  
MASSACHUSETTS.

## HEADED KNOB FOR CARRIAGES, &c.

SPECIFICATION forming part of Letters Patent No. 454,549, dated June 23, 1891.

Application filed June 23, 1890. Serial No. 356,333. (No model.)

*To all whom it may concern:*

Be it known that we, CHESTER O. UPHAM and LAWYER F. UPHAM, of Hyde Park, county of Norfolk, State of Massachusetts, have invented an Improvement in Headed Knobs for Carriages, &c., of which the following description, in connection with the accompanying drawings, is a specification, like letters and figures on the drawings representing like parts.

Prior to this invention fastening posts or studs have been engaged by eyelets set in flexible material, instances of which are familiar in carriage and other curtains and in gloves. Commonly in curtain-work the curtain has an eyelet-hole re-enforced by a small piece of leather or cloth or by overstitching, as in a button-hole, and the post has been entirely of metal and has had an enlarged head and integral flanged body fast on a screw, or has been provided with a corrugated body of flexible material.

In accordance with our invention the body of the post is composed of a non-metallic smooth-surfaced yielding material which is interposed between the annularly-grooved spherical head of the shank of the post and the material on which the body is seated. The flexible material to be engaged and held by this post will preferably be provided with a metallic grommet or eyelet, the inner portion of which engages the non-metallic smooth-surfaced yielding body of the post.

Figure 1 shows one of our improved fastening-studs; Fig. 2, a portion of a curtain having a metallic grommet or eyelet to engage said post; Fig. 3, a longitudinal section through the stud with the grommet upon it, and Fig. 4 shows part of a jaw for engaging the head of the screw-stud shown in Fig. 3.

We have illustrated our invention as applied to a carriage and to a glove, but do not intend to limit the use thereof to only these purposes.

Referring to the drawings, Fig. 1, A is supposed to represent one of the bows of a car-

riage-top covered with leather at *a*, and referring to Fig. 2, B shows part of a curtain with a metallic grommet or eyelet *b* set therein.

The shank of the stud in Figs. 1 and 3 is represented as a screw *c*, having a head *d* (shown in said figures as spherical) and provided with an annular groove *e* at its periphery. This annular groove serves the purpose of the usual "nick" in the screw, and to insert or remove the same from the bow the said groove may be entered by lips 2, extended horizontally toward each other, of spring-jaws *f*, as represented in Fig. 4.

The body *g* of the stud is represented as a collar of non-metallic material, preferably india-rubber in a partially flexible and yielding state or condition, and preferably, but not necessarily so, the said collar or body may have a flange 4 at one end to bear against the material. In this condition when the grommet or eyelet *b* is applied to the body, as in Fig. 3, the grommet engages the soft or non-metallic body and clings to it, the friction or adhesion between the two being sufficient to retain them in engagement, as shown in Fig. 3. Preferably the body *g* will be of soft vulcanized india-rubber of the nature of so-called "velvet rubber."

We claim—

1. The screw having a spherical head provided with an annular groove at its periphery, substantially as described.

2. The screw provided with a spherical head *d*, having an annular groove and a smooth-surfaced yielding non-metallic body thereon provided with a flange 4 at its base, substantially as described.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

CHESTER O. UPHAM.  
LAWYER F. UPHAM.

Witnesses:

GEORGE W. CHAPMAN,  
CHARLES E. JENNEY.