(No Model.)

# C. H. BAKER.

## SHAFT HOLDER.

No. 463,091. Patented Nov. 10, 1891.

Fig. 1.

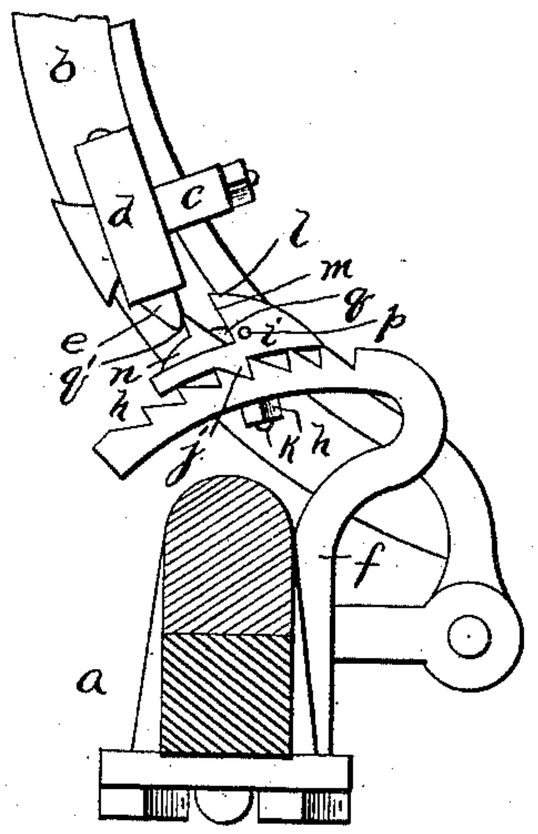
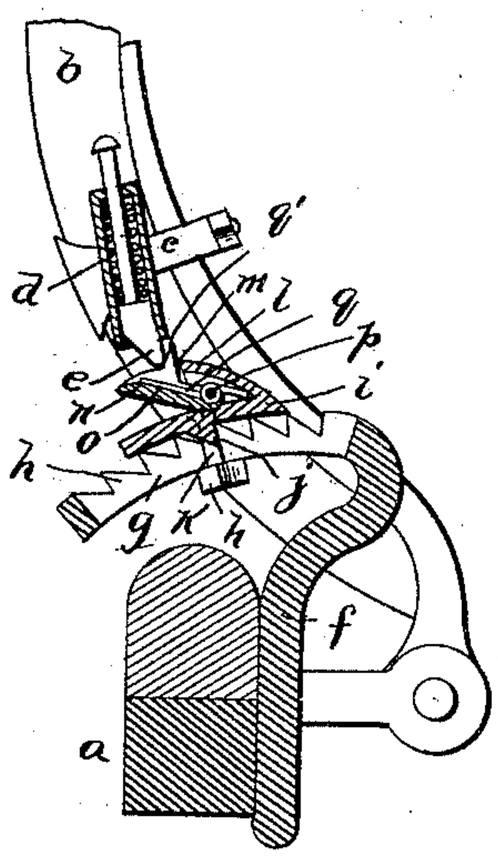



Fig. 2.




WITNESSES:

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# UNITED STATES PATENT OFFICE.

CHARLES H. BAKER, OF WABASH, INDIANA, ASSIGNOR OF TWO-THIRDS TO WILLIAM P. JONES, OF SAME PLACE.

## SHAFT-HOLDER.

SPECIFICATION forming part of Letters Patent No. 463,091, dated November 10, 1891.

Application filed April 30, 1891. Serial No. 391,097. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES H. BAKER, of the city of Wabash, in the county of Wabash and State of Indiana, have invented certain new and useful Improvements in Buggy-Shaft Holders; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

This invention relates to certain improvements in shaft-holders, the object of the invention being to provide an improved shaft-holder exceedingly strong, simple, and durable in construction and which will securely hold the shaft in an upright position, yet which will readily release the shaft when the pressure is applied to lower the same, the particular object being to improve the construction of shaft-holder set forth in my pending application, Serial No. 382,877, filed February 26, 1891. These objects are accomplished by and this invention consists in certain novel features of construction and in combinations of parts more fully described hereinafter, and particularly pointed out in the claims.

Referring to the accompanying drawings, Figure 1 is an elevation of a portion of the axle and shaft of the vehicle provided with present improvement, the shaft being held raised by the holder. Fig. 2 is a sectional view showing tumbler raised by shaft as in operation of releasing shaft.

In the drawings, reference-letter *a* indicates the portion of the vehicle-axle shown, and *b* indicates the portion of shaft shown coupled to the axle by any suitable coupling, as ordinarily. Near the end of the shaft a transverse block or arm *c* is clipped or otherwise secured thereto, so as to project from the inside of the shaft, and the transverse socket *d* is rigid on the projecting end of this block in a plane preferably parallel with the length of the shaft. The spring-bolt *e* is located in this socket, projecting from the inner end thereof and beveled on the upper side of its inner end, as clearly shown. An arm *f* is rigidly secured, preferably clipped to the axle, so as to extend upwardly and preferably transversely above the same, the upper end of this arm being preferably extended rearwardly and provided with a longitudinal slot *g* and serrations or teeth *h* on its upper edge, a block *i*, adjustably secured on said serrated slotted portion of the arm by means of the projection *j* on its under side, arranged to fit said serrations, and the bolt *k*, extending from the block down through said slot in the arm and provided with a clamping-nut *h* on its under end, whereby the said block can be adjusted longitudinally of the said serrated slotted arm and can be clamped in the desired position thereon. The front portion of the block is beveled upwardly and rearwardly, as shown at *l*, to a shoulder *m*. The portion of the block behind the shoulder *m* is reduced, as shown, to receive the tumbler *n*, which is held bearing thereon by a spring *o*, preferably mounted on a pivot on which the tumbler swings, said tumbler being pivoted at *p* to swing between said lower surface of the block and the shoulder *m* by means of arms *q*, extending from the front edge of the tumbler into a recess in the rear face of the shoulder *m*. The face of the tumbler is made to form a rearwardly-facing shoulder *q'*, and the tumbler is so pivoted that when swung up and forwardly its full movement the upper edge of said shoulder *q'* will project over the upper edge of shoulder *m*, while in its normal position the upper edge of shoulder *q'* will be located in rear of and below the shoulder *m*.

The parts are so constructed and arranged that when the shaft is swung up the spring-bolt will engage the beveled face of the block in advance of shoulder *m*, which will force the bolt upwardly, so that as the shaft moves back the bolt will slip from shoulder *m* and fall down behind shoulder *q'* of the pivoted tumbler, which will hold the shaft in the raised position. When the shafts are drawn forward with sufficient force, the spring-bolt engages the rear face of shoulder *q'* of the tumbler, thereby swinging the tumbler up against shoulder *m* and at the same time pressing up the spring-bolt, so that it slides off of shoulder *q'*, and is thereby freed from shoulder *m*, because, as before mentioned, the

shoulder $q'$ extends over and above the shoulder $m$ when the tumbler is swung up its full movement.

Means for adjusting the block carrying the tumbler and forming the catch are provided, so that the shafts can be held at various heights and positions.

It is evident that various changes might be made in the forms, arrangements, and constructions of the various parts described without departing from the spirit and scope of my invention. Hence I do not wish to limit myself to the particular construction herein set forth.

What I claim is—

1. The combination, with the shaft and axle, of the spring projection carried by and moving with a lateral arm from the shaft, the arm clipped to the axle and extending upwardly and transversely above the axle, the upper side of said arm being provided with means to catch and detachably hold said spring projections of the shaft, as and for the purposes set forth.

2. In a shaft-holder, the combination of an arm carried by the axle, a catch carried by such arm, comprising a movable spring-tumbler arranged to operate substantially as set forth, and the spring projection, such as a bolt, carried by and moving with the shaft and arranged to engage and be held by such catch, substantially as set forth.

3. In a shaft-holder, the combination of the catch carried by the axle, comprising the swinging spring-tumbler arranged to operate substantially as set forth, and the projection carried by and moving with the shaft, arranged to engage said tumbler and swing the same, said tumbler being arranged to hold said projection and to release the same when pressure is exerted upon the shafts to lower them

4. In a shaft-holder, the arm secured to the axle and having the upper transversely-extending portion slotted and serrated on its upper edge, a catch-block adjustably clamped on such transversely-extending portion of the arm, and means carried by and moving with the shaft and arranged to engage and be detachably held by such catch.

5. The combination, with a spring-bolt or projection carried by and moving with the shaft, of the catch rigid with the axle, comprising a rigid block having a rigid beveled shoulder and a swinging spring-tumbler located in rear of said shoulder to receive said bolt or projection on the shaft and to release the same from said rigid shoulder.

6. The combination of the arm secured to the axle and provided with a rearwardly and upwardly beveled block or edge having a shoulder at its rear side, the arm clipped to and extending laterally from the shaft and having the rigid socket at its outer end, and the beveled spring-bolt located in said socket and arranged to engage said beveled block secured to the axle, and means, substantially as described, to release said bolt from said shoulder of the block, substantially as described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

CHARLES H. BAKER.

Witnesses:
BERTHA DICKEN,
JOHN H. DICKEN.