N° 13,972



A.D. 1891

Date of Application, 19th Aug., 1891—Accepted, 10th Oct., 1891
COMPLETE SPECIFICATION.

An Improved Slip Hook for Instantly Releasing a Fallen Horse from the Shafts or Pole of a Waggon or Cart.

I, FREDERICK SHEPHERD, of 53 Lafone Street, Horsleydown, in the County of Surrey, Smith and Farrier, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention has reference to improvements in slip hooks constructed as described in the Specification of Letters Patent No. 13,609 A.D. 1889, granted to me. The long hook, therein described, is extended beyond the pivot to partially embrace the link of the chain to which the apparatus is, for the time being, fastened. By this means the strain is put upon the pivot-end of the hook, which lo is formed to bear against the box, or frame and thus relieves the pivot of the strain when the hook is closed.

The V spring by means of which the hook is sprung open on the release of the sliding catch is made to bear upon the said extension of the long hook instead of its

The apparatus is made of five pieces, i.e. the box or frame, sliding catch, hook, and two **V** springs. The box is hollow and formed of two pieces fixed together by three screws. The hook is made very long and hardened at the hole through which it is pivotted to the box with a steel pivot, so that the wear is very slight. At the free end of the hook is formed a catch, which, when the hook is closed meets with the said sliding catch which is held firmly and securely in position by one of the **V** springs.

And in order that my invention may be more fully understood and carried into practice, I will now proceed to describe the same with reference to the accompanying explanatory sheet of drawings in all the figures of which the same parts

25 are marked with similar reference letters.

Figures 1 and 3 shew the apparatus with the top plate b of the box a removed, and with the hook c closed and open respectively; in the latter figure the sliding catch d is shewn drawn back to release the hook c. Figure 2 shews the top plate b in position and the manner in which it embraces the extended end g of the hook c so that the pivot is relieved of all strain, which strain is thrown on the said extension g and the curved ends of the plate b and box a, when the hook is closed. The hook-opening spring e is arranged to bear upon the hook-extension g which is suitably shaped for the purpose. The spring f is employed to actuate the sliding

catch d.

35 The box is provided with an opening on each side to allow of the insertion of a finger into a hole in the sliding catch d for the purpose of withdrawing it from engagement with the hook, which is then instantly released.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I 40 claim is:—

An improved slip-hook, with-

The sliding catch;
 The two V springs;

45

(3) The catch on the pivot hook;

(4) The extended portion g of the pivot hook;
(5) The formation of the frame or box to embrace the extended portion g of the hook, whereby the rivet is relieved of strain.

1.

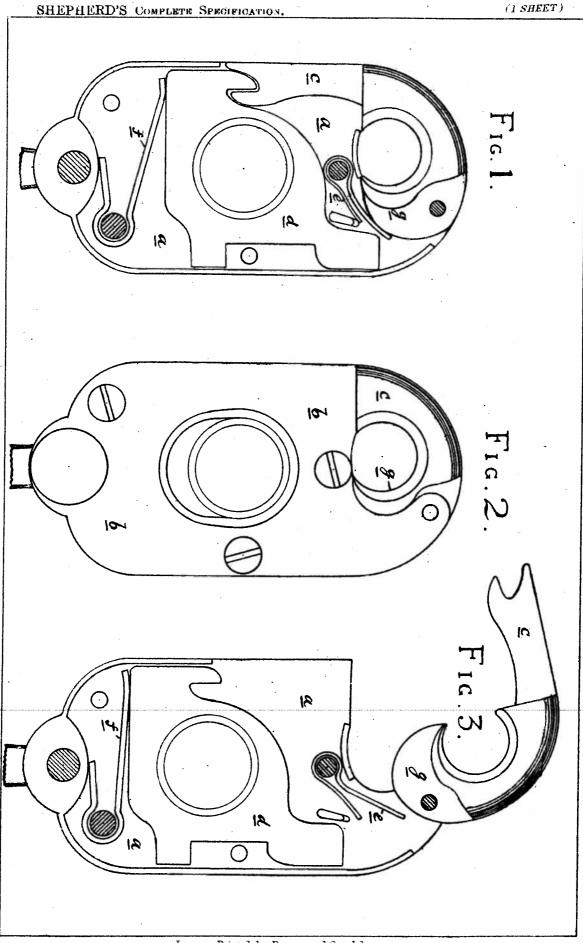
Shepherd's Improved Slip Hook for Instantly Releasing a Fallen Horse.

The whole being constructed substantially as shown and described in this and the Specification referred to.

Dated this 18th day of August 1891.

"Invention" Office, 54, Fleet Street, London, E.C., Agent for the Applicant.

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