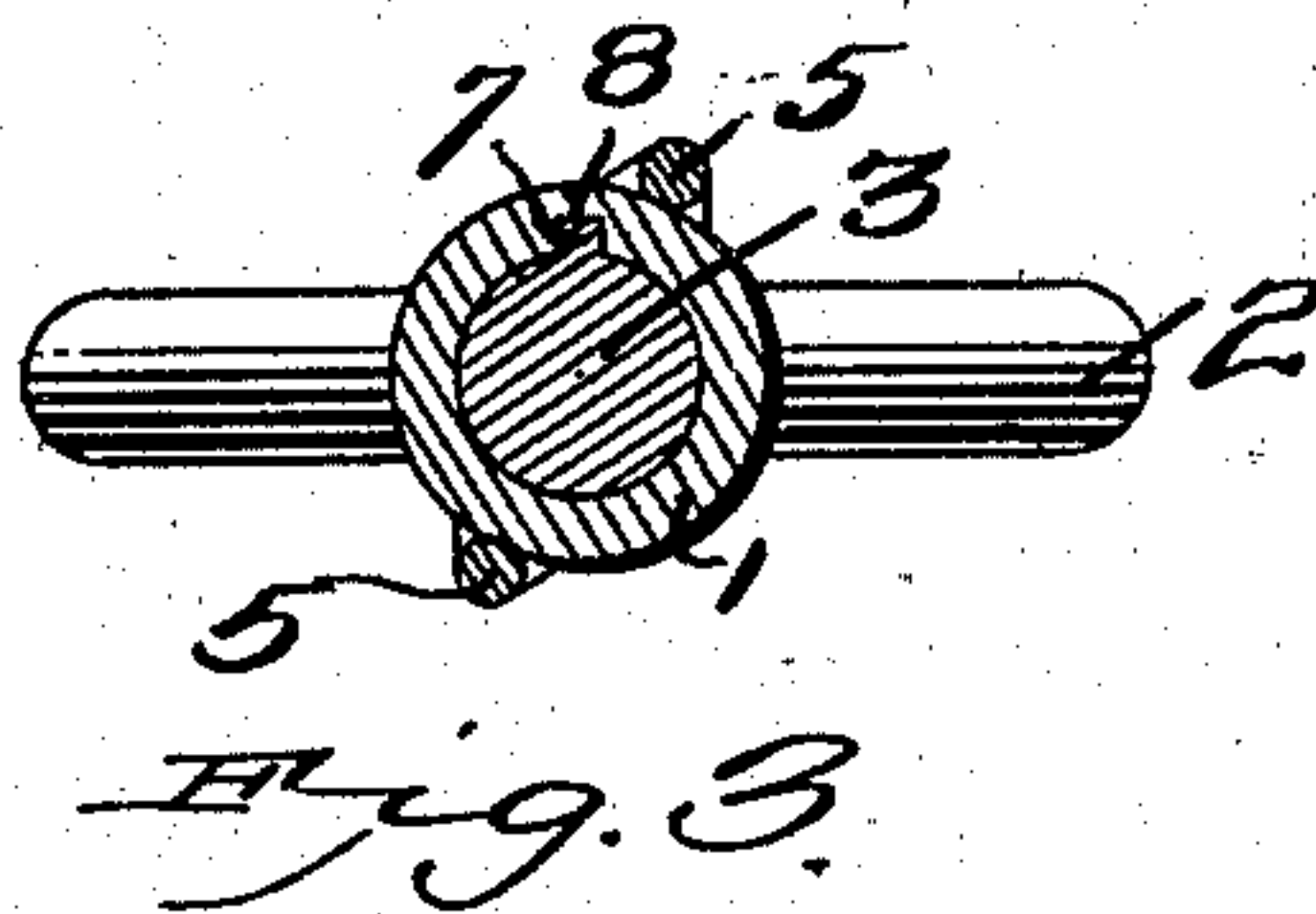
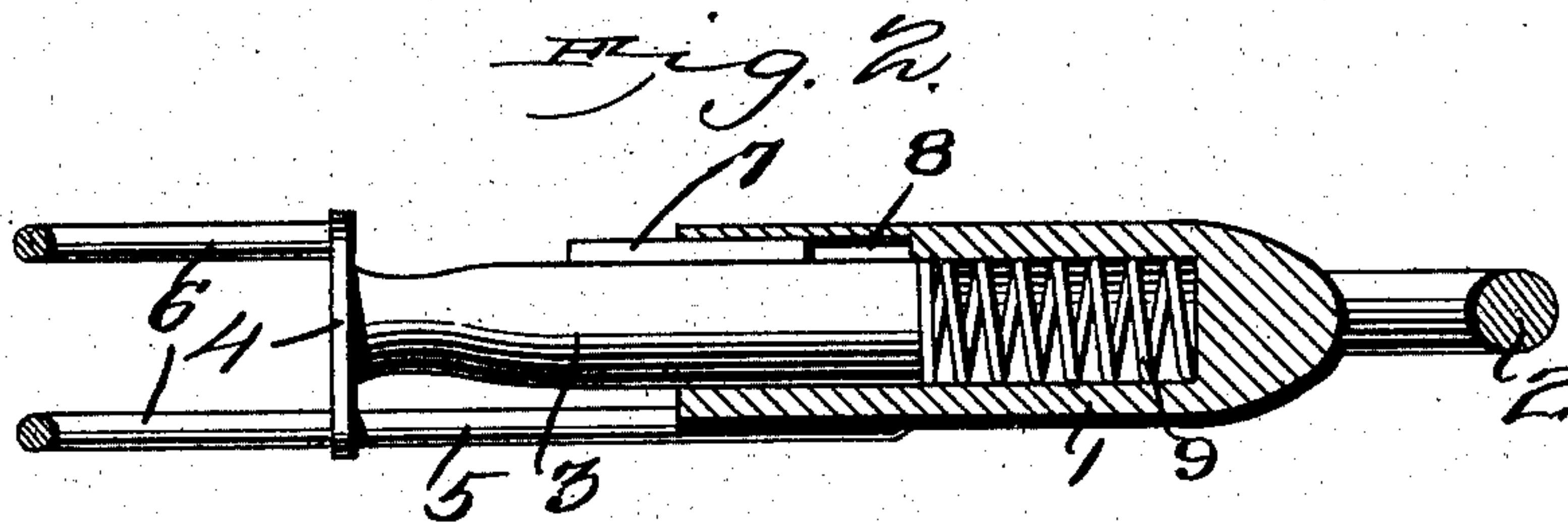
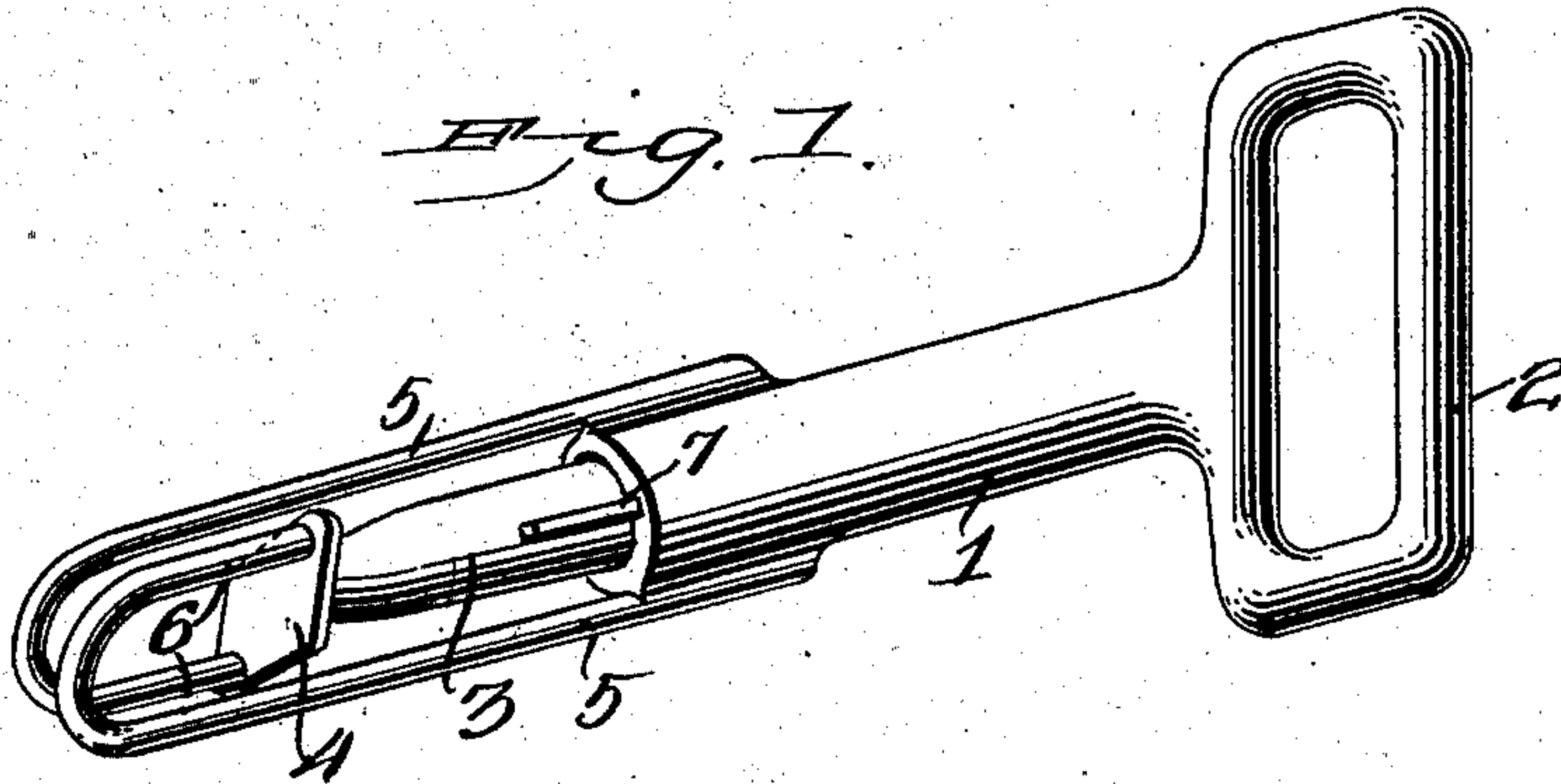


No. 720,050.

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J. S. MUGG.  
DOUBLE SAFETY SNAP HOOK.  
APPLICATION FILED MAR. 31, 1902.

NO MODEL.



Witnesses  
*E. J. Stewart*  
*R. M. Elliott*

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# UNITED STATES PATENT OFFICE.

JOHN S. MUGG, OF GOODLAND, INDIANA.

## DOUBLE SAFETY SNAP-HOOK.

SPECIFICATION forming part of Letters Patent No. 720,050, dated February 10, 1903.

Application filed March 31, 1902. Serial No. 100,783. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN S. MUGG, a citizen of the United States, residing at Goodland, in the county of Newton and State of Indiana, have invented a new and useful Double Safety Snap-Hook, of which the following is a specification.

This invention relates to double safety snap-hooks for harness.

10 The object of the invention is to provide a snap-hook of the above character which shall be simple of construction, thoroughly efficient and durable in use, cheap of manufacture, and readily operable in being attached  
15 to and detached from the part with which it coacts.

With these and other objects in view, as will appear as the nature of the invention is better understood, the same consists in the  
20 novel construction and combination of parts of a double safety snap-hook, as will be hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which like  
25 numerals of reference indicate corresponding parts, there is illustrated one form of embodiment of the invention capable of carrying the same into practical operation, it being understood that the elements therein exhibited  
30 may be varied or changed as to shape, proportion, and exact manner of assemblage without departing from the scope of the invention, and in these drawings—

Figure 1 is a view in perspective of a snap-hook constructed in accordance with the present invention. Fig. 2 is a view in longitudinal section. Fig. 3 is a view in transverse section.

Referring to the drawings, 1 designates the  
40 shank of the hook provided with the usual attaching-loop 2, 3 a latch-bolt provided with a head 4, and 5 the two hooks, which latter may be associated with the shank in any preferred manner, preferably by being cast integral therewith. The hooks have their terminals 6 disposed on opposite sides of the shank  
45 and in parallelism with the attaching-loop and are engaged by the head 4, so that when in engagement with a ring or other object it  
50 will be held against accidental separation from the loops formed between the head and

the bends of the hooks. As herein shown, the head is approximately diamond-shaped in order that its projecting sides may be readily grasped when the latch-bolt is to be re- 55 tracted to free the ring from engagement with the hooks; but it is to be understood that the head may be of other shape than that shown and still be within the scope of the invention. The latch-bolt is guided for  
60 proper coöperative engagement with the terminals of the hook by a feather or spline 7, which engages a keyway 8, formed in the inner wall of the shank, and is held normally projected by a coiled spring 9, housed in the  
65 shank and bearing against the inner end of the latch-bolt. By thus positively covering the ends of the hook 6 all danger of their catching on objects will be obviated, and by the provision of the double hook disposed  
70 in the manner described when a ring is once associated therewith it will be securely held from accidental separation therefrom, and even though the ring should by any means  
75 work loose in one of the hooks the chances are that it will be retained by the other hook, and thereby cause the snap-hook to perform the function for which it is designed.

Instead of retracting the latch-bolt by grasping its head with the fingers, as described, separation of the hooks from the ring may be effected by pressing the head against the ring, thus to clear it of the terminals of the hooks  
80 5, and giving a quarter-turn to the shank, when the ring will be freed. 85

The safety-hook of this invention is exceedingly simple of construction and will be found thoroughly efficient and durable in use and may be relied upon for performing the functions for which it is designed in a positive  
90 and satisfactory manner.

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

1. A double safety snap-hook, comprising 95 a tubular shank, hooks disposed on opposite sides of the shank and parallel therewith and having their terminals disposed toward the rear thereof, and a spring-pressed latch-bolt having a head normally engaging the hook-  
100 terminals, and projecting laterally beyond the same to present finger-holds.

2. A double safety snap hook, comprising  
a tubular shank, hooks disposed on opposite  
sides of the shanks and parallel therewith  
and having their terminals disposed toward  
5 the rear thereof, a spring-pressed latch-bolt  
carried by the shank and having a head nor-  
mally in engagement with the hook-terminals  
and projecting laterally beyond the same to  
present finger-holds, and means for positively

guiding the head into engagement with the 10  
terminals.

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

JOHN S. MUGG.

Witnesses:

F. D. GILMAN,  
ARLIE WAGNER.