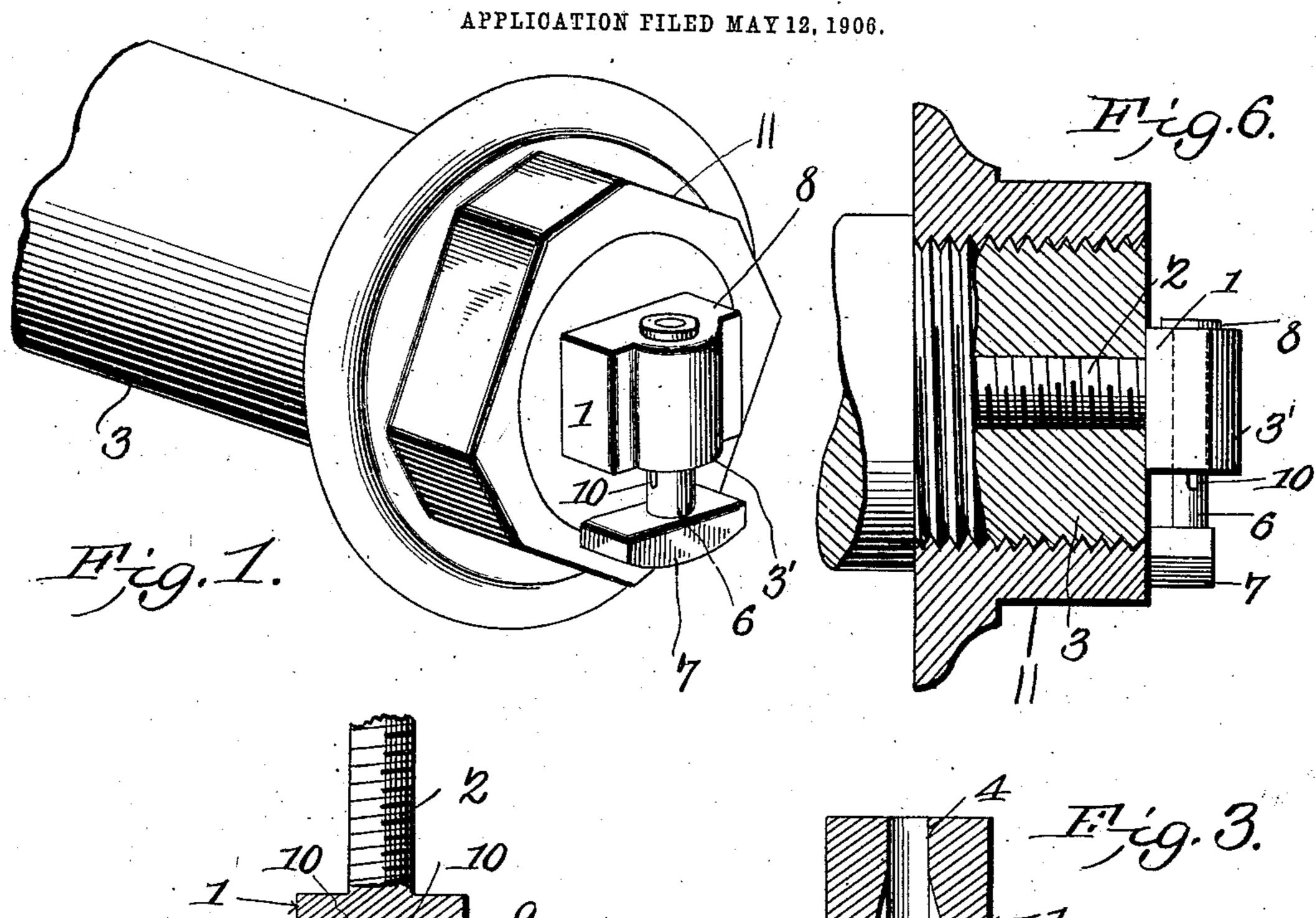
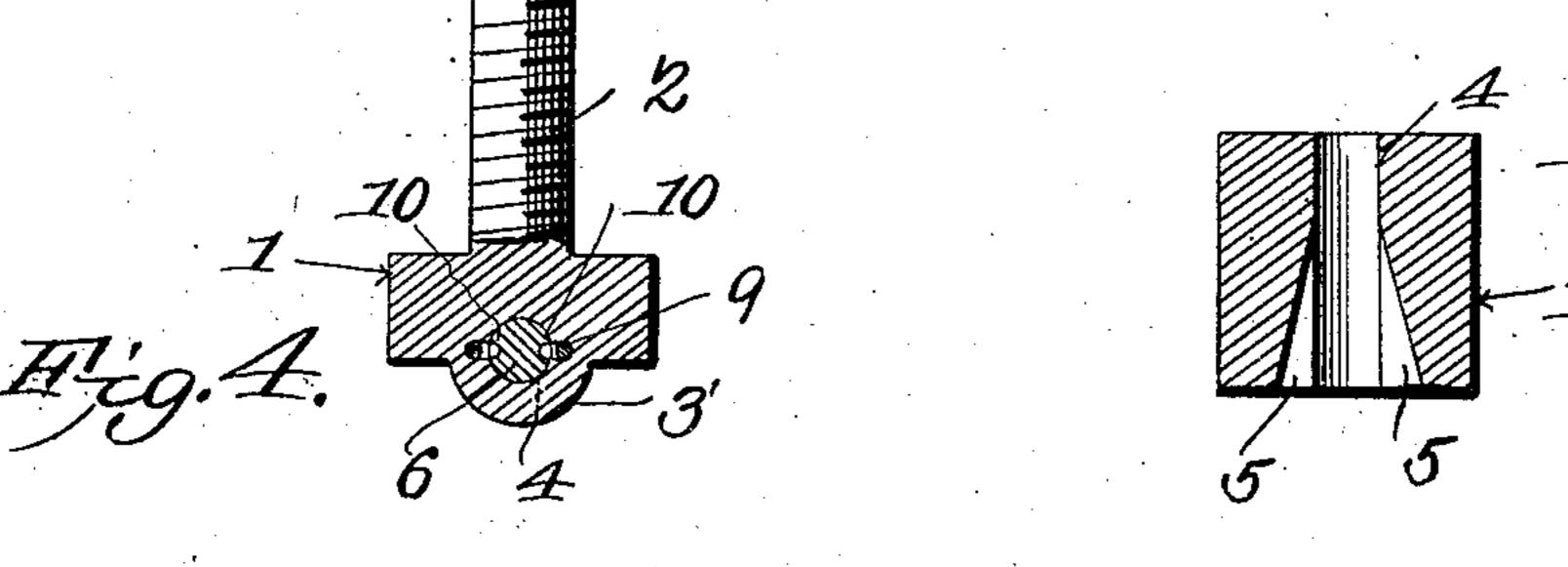
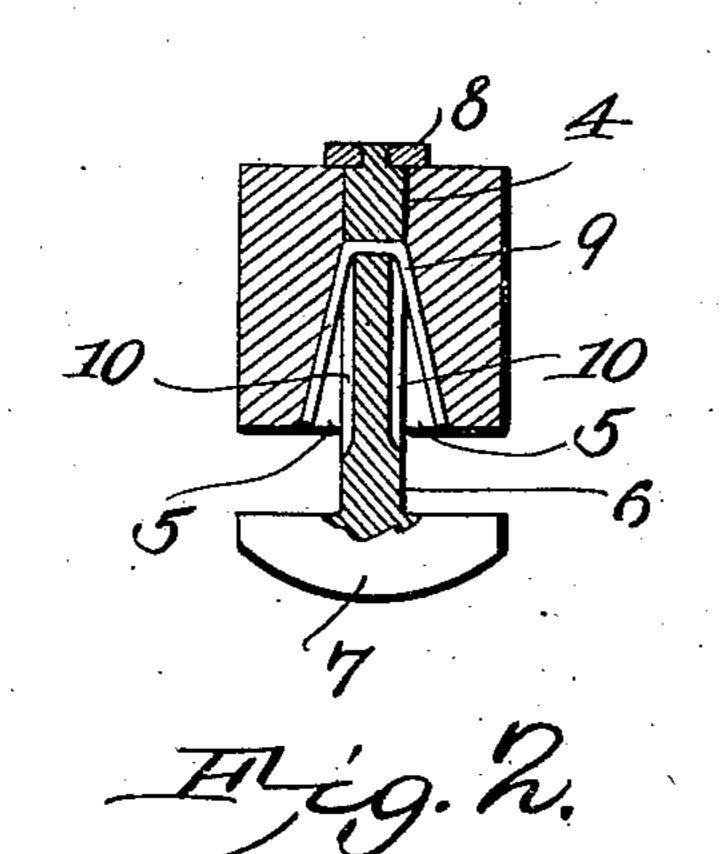
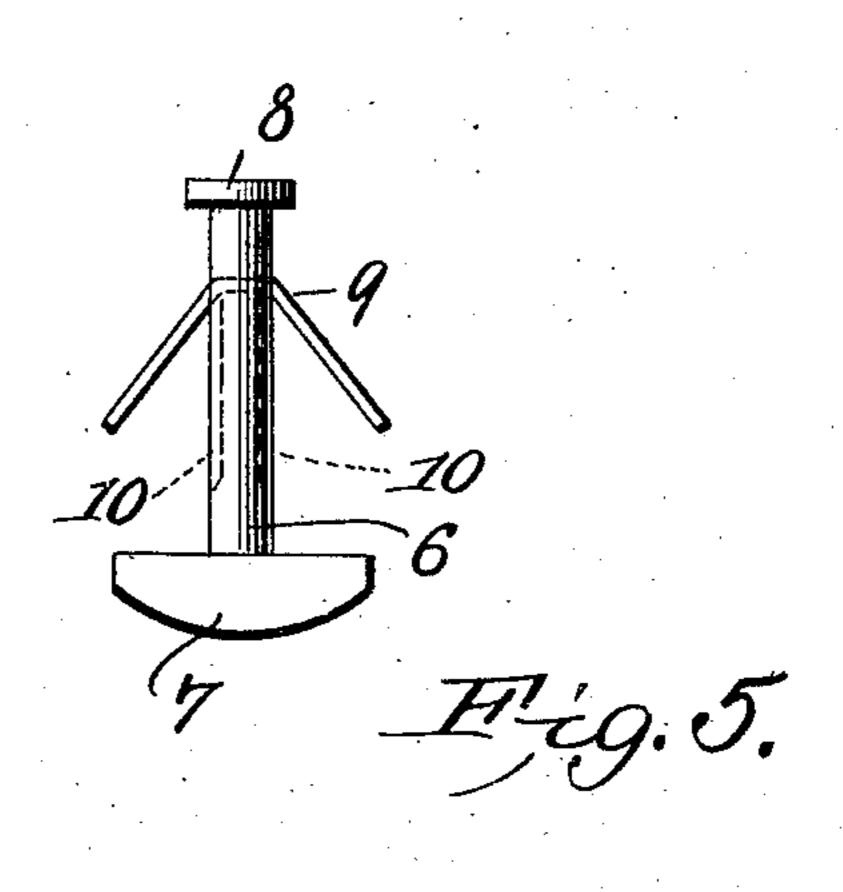
C. D. SMITH.

NUT LOCK.









WITNESSES:

Charles II. Smith,

UNITED STATES PATENT OFFICE.

CHARLES D. SMITH, OF PARIS, ILLINOIS.

NUT-LOCK.

No. 845,589.

Specification of Letters Patent.

Patented Feb. 26, 1907.

Application filed May 12, 1906. Serial No. 316,570.

To all whom it may concern:

Be it known that I, Charles D. Smith, a citizen of the United States, residing at Paris, in the county of Edgar and State of Illinois, 5 have invented a new and useful Nut-Lock, of which the following is a specification.

This invention relates to nut-locks; and it consists in the novel construction and arrangement of its parts, as hereinafter de-

10 scribed.

The object of the invention is to provide a nut-lock especially adapted to be used at the ends of axle-spindles for the purpose of retaining the axle-nuts thereon, although it 15 may be used to advantage when applied to other devices.

It consists primarily of a block adapted to be attached to the end of the spindle, said block having extending vertically there-20 through a perforation with oppositelygrooved sides. A pin having at its lower end an enlarged head passes through the perforation of said block, said pin being provided with a spring the end of which are 25 adapted to enter the grooves in the perforation of said block. A cap is secured to the end of said pin on the opposite side of the block from the said head.

In the accompanying drawings, Figure 1 is 30 a perspective view of a spindle, showing the nut-lock applied thereto. Fig. 2 is a vertical sectional view of the block, showing the pin located therein. Fig. 3 is a vertical sectional view of the block with the pin removed. 35 Fig. 4 is a horizontal sectional view of the block. Fig. 5 is a side elevation of the pin disconnected from the block. Fig. 6 is a side elevation with parts in section of the end of

the axle, showing the nut-lock applied thereto. The block 1 is provided on its rear face with the threaded lug 2, which is adapted to enter a threaded perforation in the end of the spindle 3. The outer face of said block 1 is provided with the integral vertical extending 45 strengthening-web 3'. The perforation 4 extends vertically through said block, said perforation being provided at its lower end and on opposite sides with the vertical grooves 55. The pin 6 is adapted to slide within the 50 perforation 4. Said pin is provided at its lower end with the enlarged head 7 and at its upper end with the cap 8. The spring 9 passes through the said pin, and the ends of said spring are inclined down toward the head 55 7. The sides of the pin 6 are provided with

the grooves 10 10, which are adapted to receive the ends of the spring 9. The pin 6 is longer than the dimension of the block 1, as shown in Fig. 2, and the said pin is adapted to slide within the perforation 4 of the said 60 block. The block 1 is so positioned upon the end of the spindle 3 that when the pin 6 is slid up in the said block the axle-nut 11 may pass over the said pin and engage the spindle-threads and when the said nut passes 65 beyond the said pin the same is slid down, which carries the enlarged head 7 below the edge of the nut-perforation, and thus the said nut is held in position against rotation.

Having described my invention, what I 70 claim as new, and desire to secure by Letters

Patent, is—

1. In combination with a spindle and a nut, a block adapted to be applied to the spindle end, said block having a perforation, a pin 75 slidably mounted in said perforation and having at one end an enlarged head and at its other end a cap, said pin having greater axial dimension than the block, said pin carrying a spring adapted to engage the block-perfora- 80 tion.

2. In combination with a spindle and a nut, a nut-lock consisting of a block adapted to be applied to a spindle and having a perforation provided at one end with oppositely- 85 located grooves, a pin adapted to slide in said perforation and having at one end an enlarged head and at its other end a cap, a spring attached to said pin and having ends adapted to enter the grooves of said block- oo

perforation.

3. In combination with a spindle a nutlock comprising a perforated block adapted to be attached to the spindle, said block having located in opposite sides of its perforation 95 and at the lower end thereof grooves, a pin adapted to slide within said block-perforation, said pin having at one end an enlarged head and at the other end a cap, a spring passing through said pin and having depending ends, 100 said pin having grooves located under said spring ends and adapted to receive said spring ends.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in 105

the presence of two witnesses.

CHARLES D. SMITH.

Witnesses:

GEO. W. MYERS, M. B. Daly.