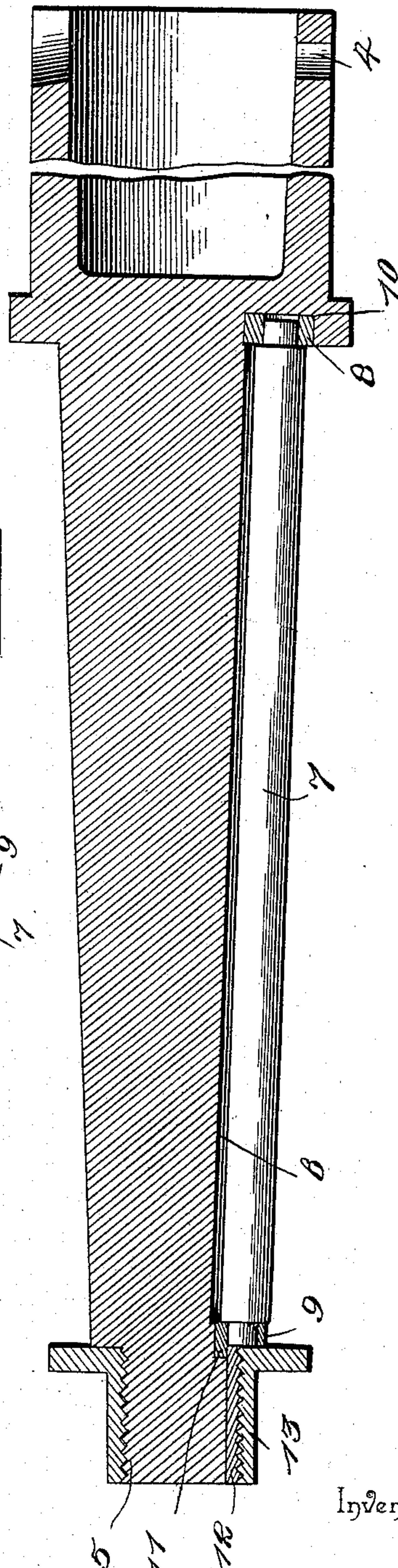
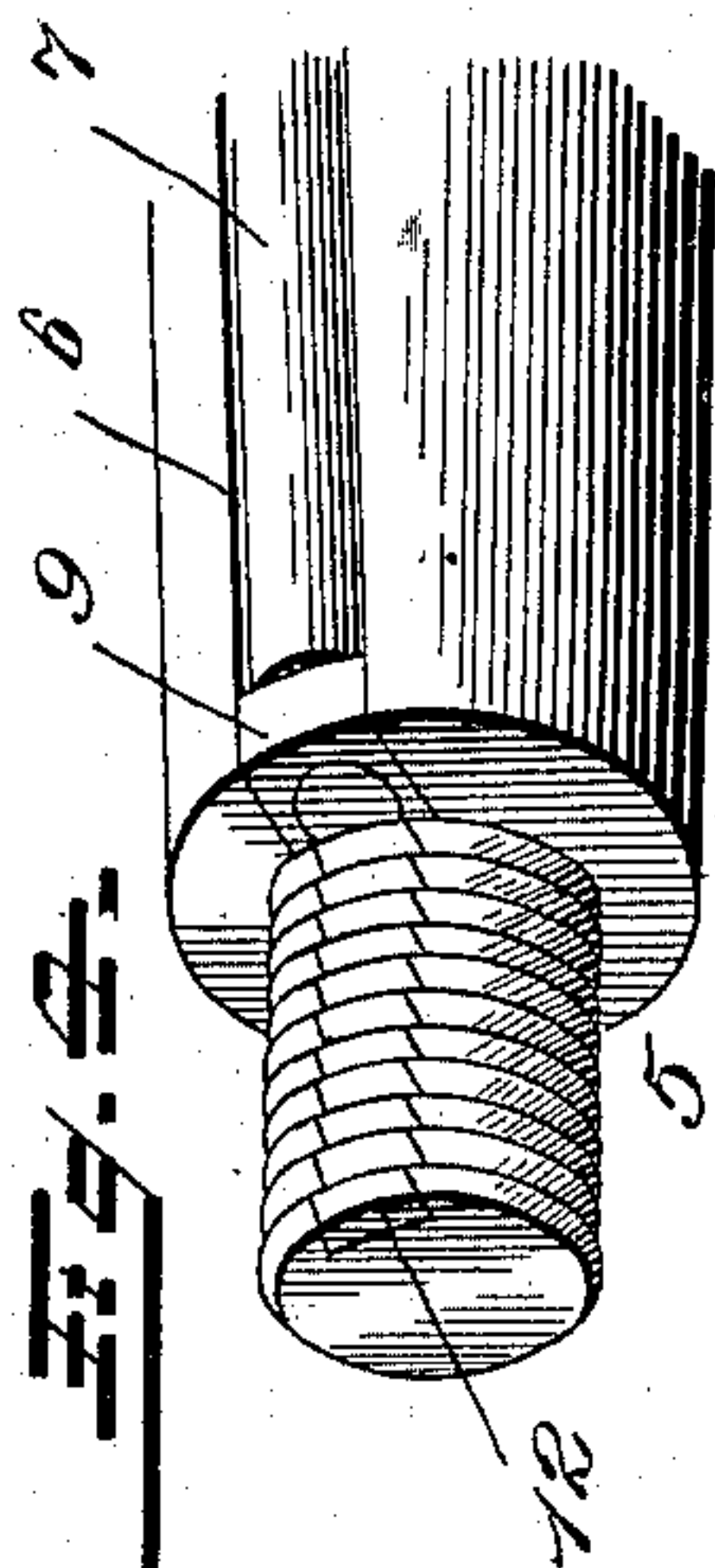
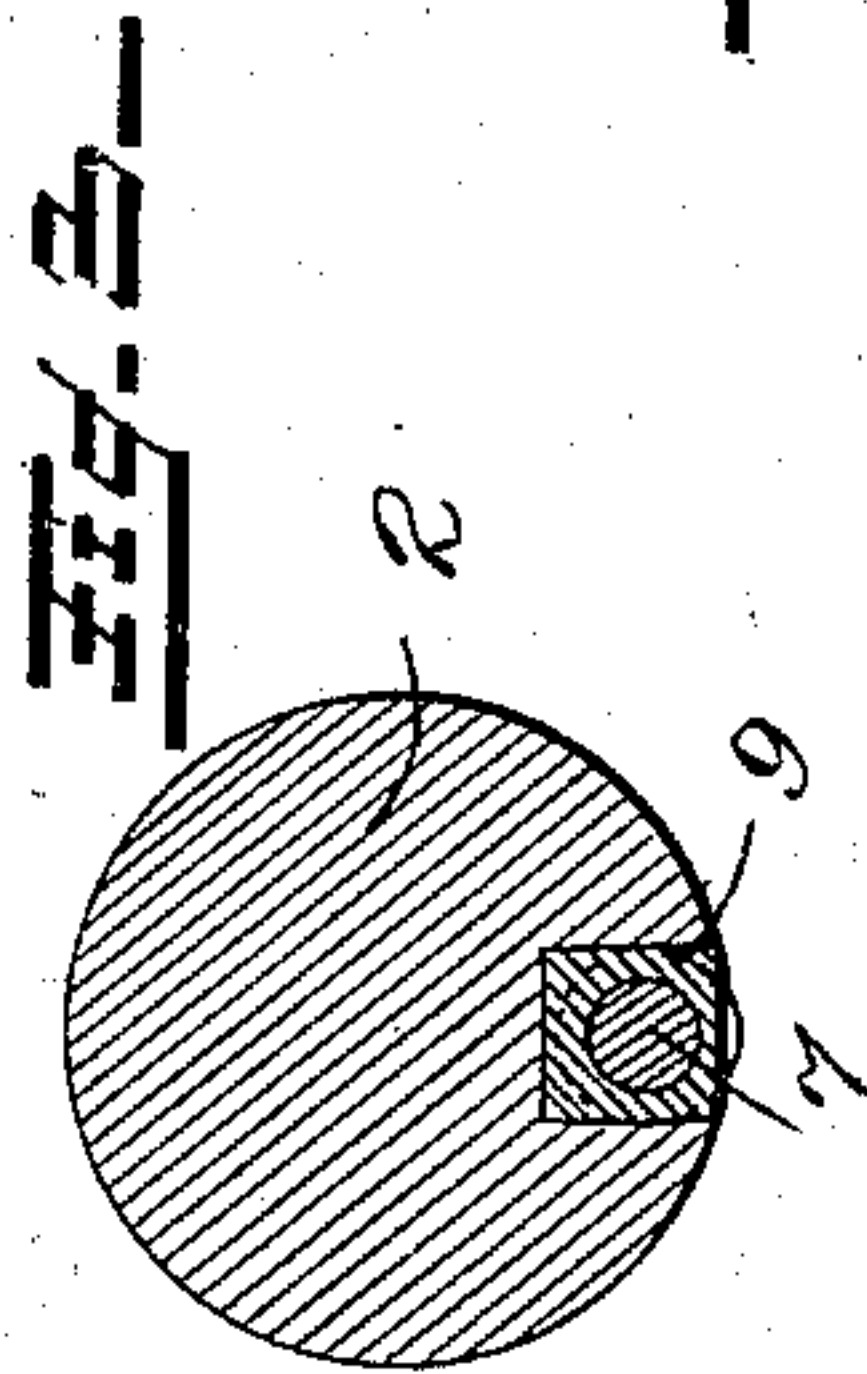
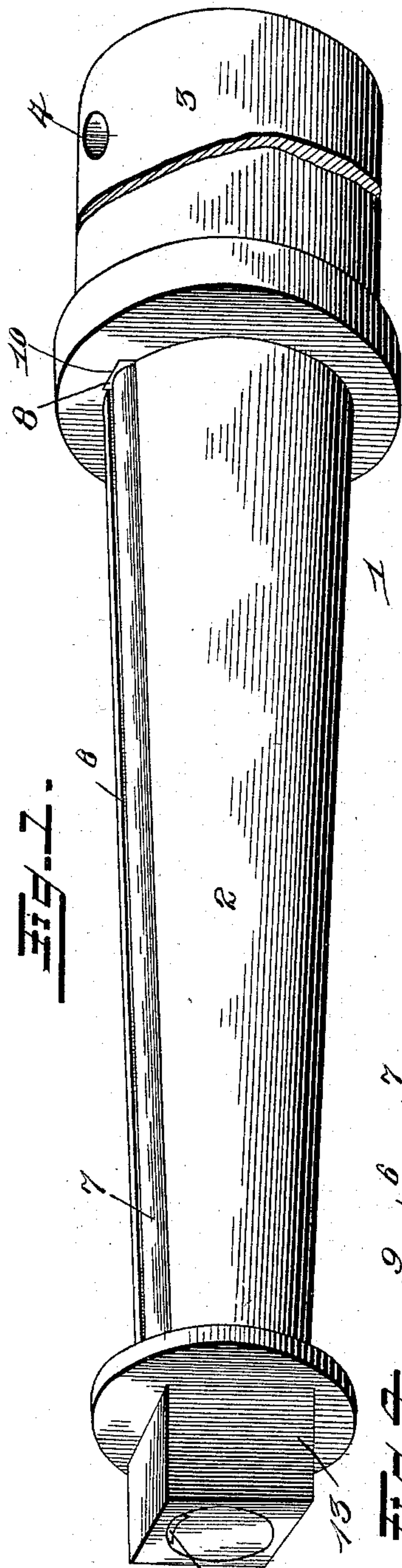


(No Model.)

R. L. FINLEY.
AXLE SKEIN.

No. 565,677.

Patented Aug. 11, 1896.



Witnesses

H. J. Koerth
H. J. Riley

By *two* Attorneys.

Inventor

Robert L. Finley

C. Snow & Co.

UNITED STATES PATENT OFFICE.

ROBERT L. FINLEY, OF BONHAM, TEXAS, ASSIGNOR OF TWO-THIRDS TO
J. F. SADLER, OF SAME PLACE.

AXLE-SKEIN.

SPECIFICATION forming part of Letters Patent No. 565,677, dated August 11, 1896.

Application filed December 6, 1895. Serial No. 571,275. (No model.)

To all whom it may concern:

Be it known that I, ROBERT LEE FINLEY, a citizen of the United States, residing at Bonham, in the county of Fannin and State of Texas, have invented a new and useful Axle-Skein, of which the following is a specification.

The invention relates to improvements in axle-skeins.

10 The object of the present invention is to improve the construction of axle-skeins, to increase their strength and durability, and to decrease the wear of the same at the bottom thereof.

15 The invention consists in the construction and novel arrangement and combination of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

20 In the drawings, Figure 1 is a perspective view of an axle-skein constructed in accordance with this invention, the axle-skein being inverted to show the roller. Fig. 2 is a central longitudinal sectional view. Fig. 3 is a transverse sectional view. Fig. 4 is a detail perspective view of the outer end of the skein, the latter being arranged substantially as shown in Fig. 1.

30 Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates an axle-skein having a solid spindle portion 2 and provided with a sleeve 3, which is adapted to be placed on an axle-body, and the sleeve is provided at its bottom with a perforation 4 for the reception of a tie or connecting rod designed to extend between the skeins of an axle to retain them on the body thereof.

40 The spindle portion 2 of the skein is provided with an outer threaded end 5, and it has at its bottom a longitudinal groove or recess 6, in which is arranged a longitudinally disposed antifriction-roll 7, which has its ends journaled in bearings 8 and 9 at the ends of the groove or recess. The roll 7 projects beyond the bearing-surface of the spindle portion 2 at the bottom thereof, and is adapted to receive the weight of a load, and it pre-

vents much of the wear to which an ordinary spindle is subjected. In order to increase the bearing-surface of the spindle at the bottom thereof, more than one roll may be provided, as desired.

The bearings 8 and 9 preferably consist of 55 removable blocks, and the bearing 8 is arranged in a socket 10 at the inner end of the longitudinal recess or groove, and the outer bearing 9 is provided at its inner end with an outwardly-projecting flange 11, and is detachably secured to the spindle portion of the skein by a slide or key 12, arranged in a dovetailed groove or way end 5 and provided with threads which complete the threads of said threaded end 5. When an axle-nut 13 is 65 placed on the threaded end 5, it locks the slide or key 12 in the dovetailed recess or groove.

It will be seen that the axle-skein is simple and inexpensive in construction, that it is strong and durable, and that it is adapted to 70 lessen the wear on spindle and axle boxes. It will also be apparent that the roll may be readily removed when desired, and that one or more rolls may be employed.

Changes in the form, proportion, and minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention. 80

What I claim is—

1. The combination of a spindle provided at its bottom with a longitudinal recess and having at its outer threaded end a longitudinal groove or way, a roll journaled in the longitudinal recess, and a key or slide arranged in the groove or way, and detachably securing the roll in the recess and provided with threads completing the threads of the spindle, whereby the axle-nut is adapted to 90 lock the slide or key in place, substantially as described.

2. The combination of a spindle provided at its bottom with a longitudinal recess and having a groove or way at its threaded end, 95 a roll arranged in the longitudinal recess, a bearing-block supporting the outer end of the roll, and a slide or key arranged in the groove

or way and engaging the bearing-block and detachably securing the same and the roll to the spindle, said slide or key being provided with threads completing those of the spindle,
5 substantially as and for the purpose described.

In testimony that I claim the foregoing as

my own I have hereto affixed my signature in the presence of two witnesses.

R. L. FINLEY.

Witnesses:

H. E. TAYLOR,

E. D. McCLELLAN.