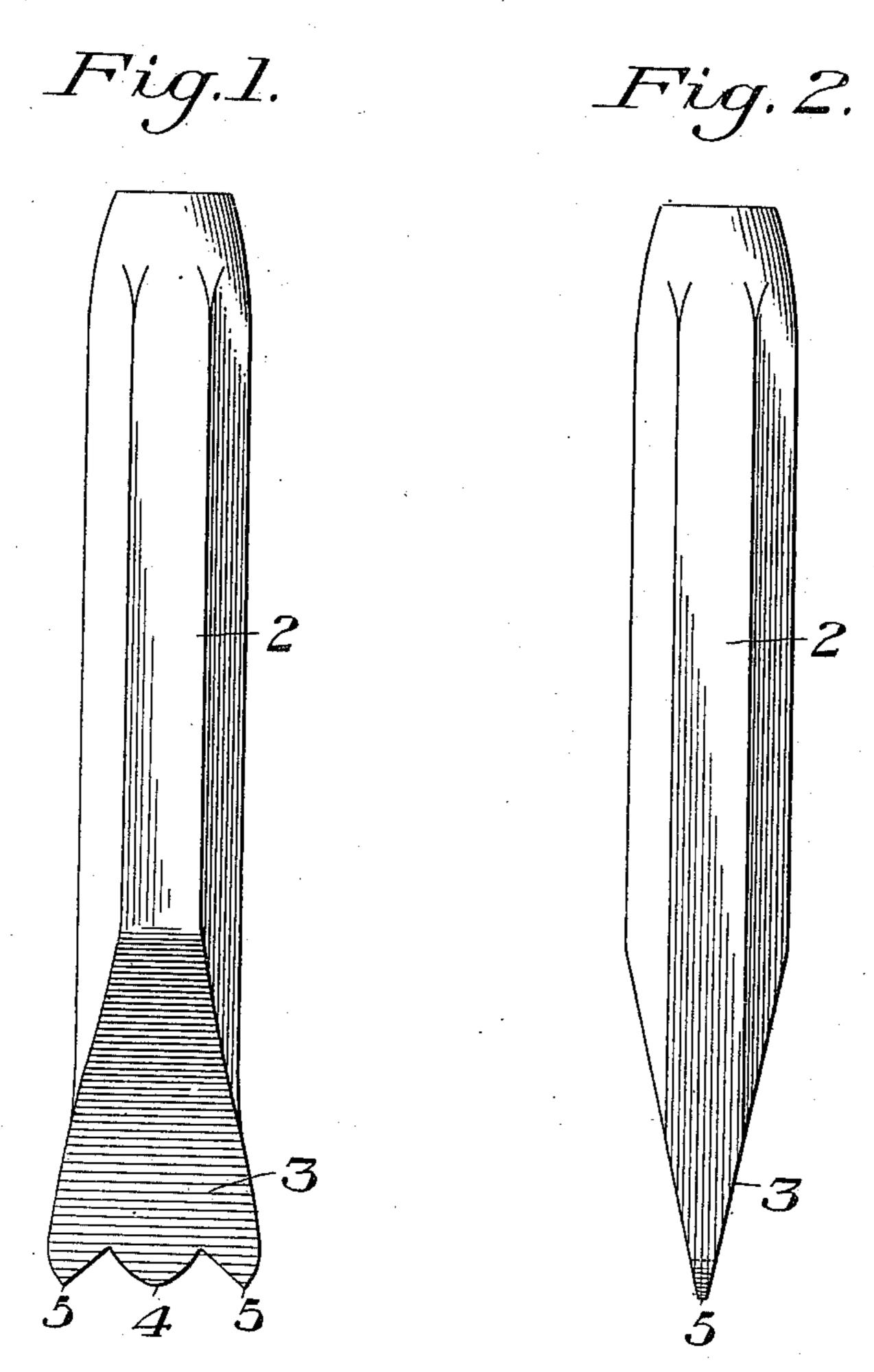
R. A. CLARK. NUT LOCKING TOOL. APPLICATION FILED AUG. 2, 1909.

964,393.

Patented July 12, 1910.



WITNESSES

RABalderson. Watter Famariss MVENTOR
B. a. Clark,
by Bakuru: Byrnes & Parmelee,
his attice

THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

RUSSELL A. CLARK, OF PITTSBURG, PENNSYLVANIA.

NUT-LOCKING TOOL.

964,393.

Specification of Letters Patent. Patented July 12, 1910.

Application filed August 2, 1909. Serial No. 510,731.

To all whom it may concern:

State of Pennsylvania, have invented a new 5 and useful Nut-Locking Tool, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figures 1 and 2 are front and side views respectively of a tool embodying my inven-

tion.

My invention has relation to a tool designed for use in locking nuts on bolts; and 15 is more particularly designed as an improvement upon the device described and claimed in the patent to Kootz and Schirmer, No. 819,289, of May 1st, 1906. The tool disclosed in said patent comprises a wedge hav-20 ing a central spur or tooth adapted to be driven into the end of a bolt to spread the thread of the bolt into the thread of the nut; and also having swaging spurs which act in a direction at right angles to the main 25 body of the wedge to force portions of the material of the nut into a slot in the bolt. In the use of tools such as shown in the said patent, difficulty has been experienced by reason of the teeth or spurs breaking off 30 in use.

The object of the present invention is, to improve the construction of the tool in such a manner that the spurs or teeth will stand up to their work and the efficiency of the

35 tool will be increased.

Referring to the drawings, the numeral 2 designates the shank of the tool which terminates at its lower portion in a wedge-shaped blade 3, this blade being widened, as shown. 40 The lower or entering edge of the blade or wedge is formed with a central tooth or spur 4, preferably of convex form, and is flanked at both sides by a tooth-shaped swaging spur 5, the spur 5 being of the same 45 length as the central spur 4. The points of the swaging spurs 5 are adapted to enter the metal of the nut and force it inwardly into engagement with the slot of the bolt, while the central wedge or spur 4 is adapted 50 to enter the slotted end of the bolt and spread the same into engagement with the thread of the nut. By making this central tooth of convex form, it is not only much

stronger and less liable to break in use, but Be it known that I, Russell A. Clark, | it also acts more efficiently to center the 55 of Pittsburg, in the county of Allegheny and | tool with respect to the bolt and nut when

applied thereto.

In the tool described in the patent above referred to, there was insufficient support behind the swaging spurs, and they soon 60 broke down in service. In the present tool, the distance between the points of swaging spurs 5, for any given size of tool, is the same as the distance between the points 4 of the spurs of the said patent, for the same 65 size of tool, but it will be noted that there is added outside of each of the points 5 a considerable body of metal. These added bodies of metal efficiently back up and support these spurs in use. I also prefer to 70 make the wedge-shaped blade much more blunt than that shown in the said patent in order to provide a stronger tool.

In practice, the convex central tooth or spur 4 is preferably of a width at its base 75 corresponding to substantially one-half the distance between the points of the swaging

spurs 5.

It will be understood that the tools are made in different sizes, for the different sizes 80 of bolts and nuts which are to be locked.

What I claim is:—

1. A nut-locking tool comprising a shank having a wedge-shaped blade, said blade having its lower edge formed with a central 85 tooth or spur, and two flanking swaging spurs one at each side of the central spur, the body of the blade being extended laterally from the points of the swaging spurs to properly back and support the same; sub- 90 stantially as described.

2. A nut-locking tool, comprising a blunt wedge having its lower edge formed with a central convex tooth or spur and having a pointed swaging spur at each side of the 95 central tooth or spur, the metal of the wedge being extended laterally from the points of the swaging spurs to properly support and back the same; substantially as described.

In testimony whereof, I have hereunto set 100

my hand.

RUSSELL A. CLARK.

Witnesses:

GEO. H. PARMELEE, H. M. Corwin.