M. H. DOOLY.

TOOLS FOR LOCKING NUTS ON BOLTS.

No. 185,084. Patented Dec. 5, 1876.

Fig. 1.

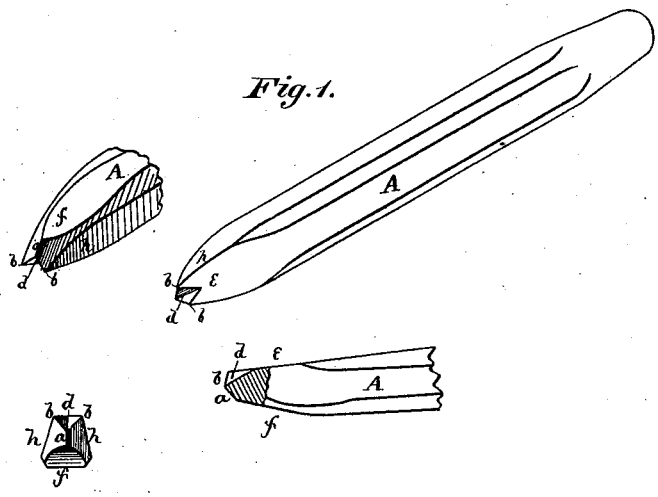
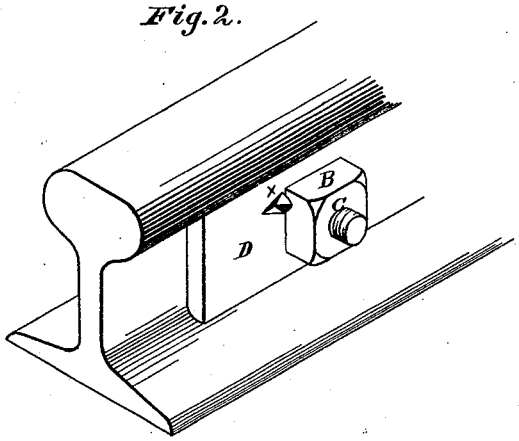


Fig. 2.



WITNESSES

Henry N. Miller

C. L. Everett

INVENTOR

Martin H. Dooly.

Alexander Mason

ATTORNEYS

UNITED STATES PATENT OFFICE.

MARTIN H. DOOLY, OF ATLANTA, GEORGIA.

IMPROVEMENT IN TOOLS FOR LOCKING NUTS ON BOLTS.

Specification forming part of Letters Patent No. **185,084**, dated December 5, 1876; application filed October 31, 1876.

To all whom it may concern:

Be it known that I, MARTIN H. DOOLY, of Atlanta, in the county of Fulton and in the State of Georgia, have invented certain new and useful Improvements in Tools for Locking Nuts on Bolts; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

My invention relates to that class of nut-locks where a portion of the metal against which the nut bears is raised up close to the side of the nut; and it consists in the construction of a tool or instrument for accomplishing this object, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 shows the construction of the tool or instruments; and Fig. 2 shows the work done by said tool.

A represents a steel bar of suitable dimensions, having its end or point shaped in a peculiar manner. The point forms three cutting-edges, *a* and *b b*, radiating from a common center at equal distances apart. The cutting-edge *a* extends centrally downward, while the cutting-edges *b b* extend upward, one toward each side, with a deep notch, *d*, between them. The top surface *e* and bottom surface *f* are both flat, but run in different planes, tapering toward the extreme point, while the sides *h h* are made convex. When a nut, B, has been screwed up tightly on the screw C against the fish-bar D, a part of the metal of the fish-bar is raised up by means of the tool A, as shown at X in Fig. 2. The cutting-edge *a* plows down into the metal, while the edges *b b* cut the slides so as to raise a pyramidal projection, X, against the side of the nut.

I lay no claim to locking nuts by raising projections from the metal against the sides of the nut, as I am aware that such is not new. This has heretofore generally been done by means of an ordinary cold-chisel, which simply scales or flakes the metal, leaving the raised portions very brittle and easily broken. By the use of my invention the raised projections are of such form as to be strong and durable and not easily broken.

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

The within-described tool for locking nuts on bolts, consisting of a bar, A, having the central cutting-edge *a*, the side radiating cutting-edges *b b*, central notch *d*, top and bottom flat surfaces *e f*, and the convex sides *h h*, all constructed substantially as herein shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 17th day of October, 1876.

MARTIN H. DOOLY.

Witnesses:
J. E. COX,
R. A. ANDERSON,
W. M. BUTT.