

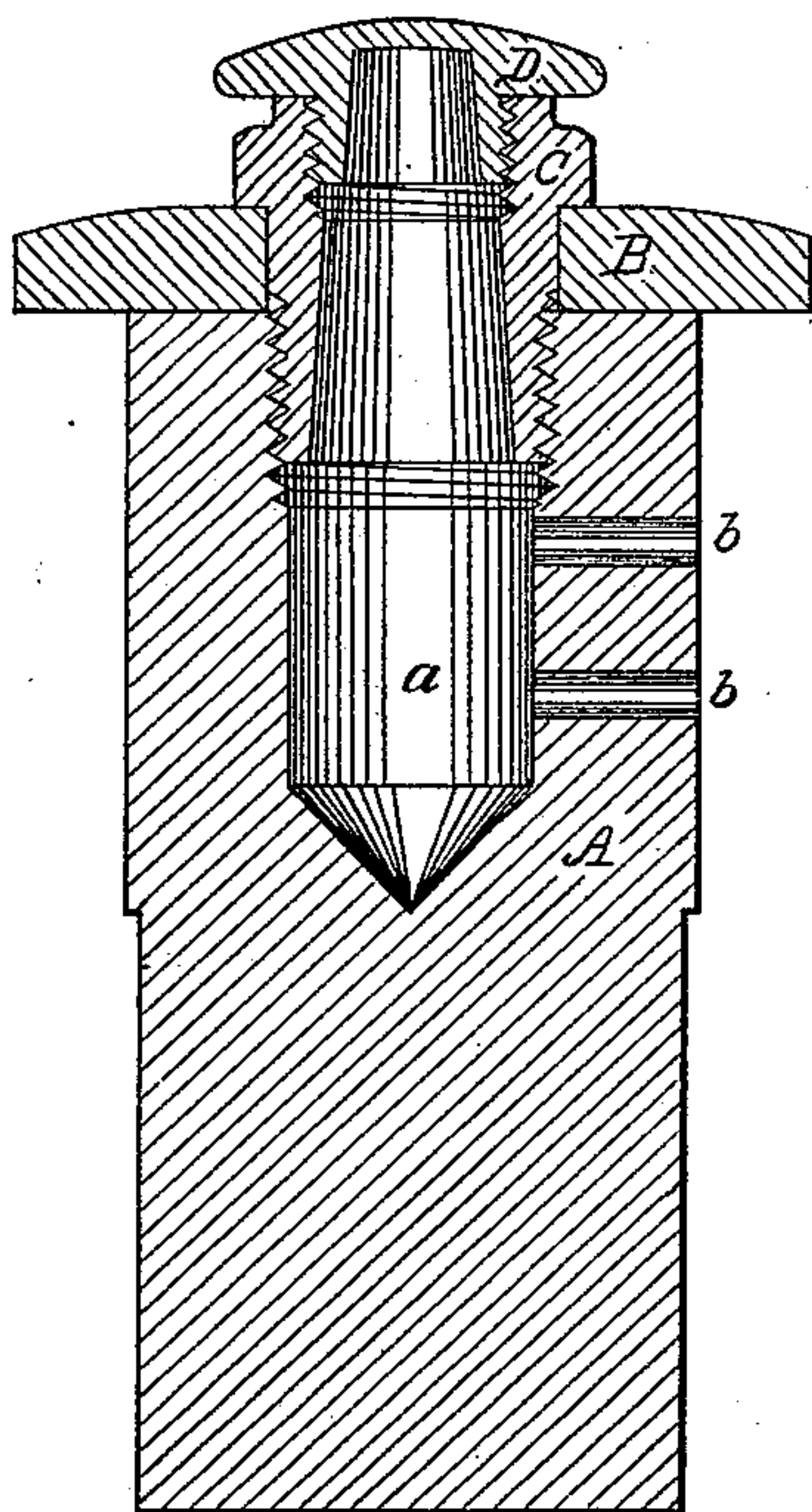
(Model.)

D. A. WOODBURY.  
Crank Pin.

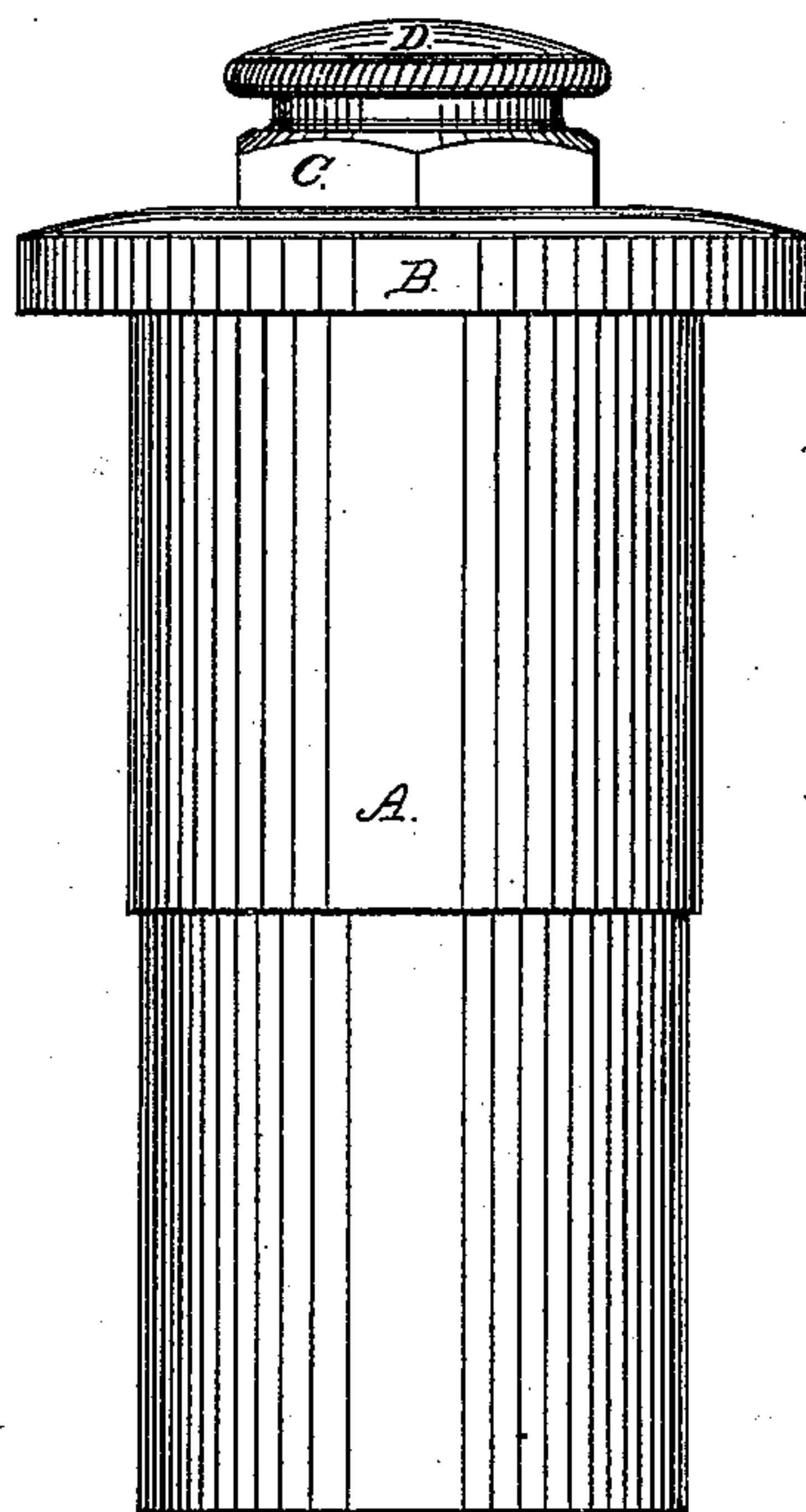
No. 230,098.

Patented July 13, 1880.

*Fig. 1.*



*Fig. 2.*



ATTEST.

*W. J. Creelman.*  
*W. H. Montgomery*

INVENTOR.

*D. A. Woodbury*

# UNITED STATES PATENT OFFICE.

DANIEL A. WOODBURY, OF ROCHESTER, NEW YORK.

## CRANK-PIN.

SPECIFICATION forming part of Letters Patent No. 230,098, dated July 13, 1880.

Application filed April 5, 1880. (Model.)

*To all whom it may concern:*

Be it known that I, DANIEL A. WOODBURY, of the city of Rochester, county of Monroe, State of New York, have invented a new and  
5 useful Improvement in Crank-Pins, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a longitudinal section, and Fig.  
10 2 an elevation.

The object of my invention is to provide a convenient receptacle for tallow or other suitable substance for lubricating the joint in case of heating.

15 In the drawings, A is the pin, with chamber *a* and passages *b b*; B, flange forming the outer shoulder for the boxes; C, hollow tap-bolt screwing into the end of the pin A, and securing thereto the flange B, and partially  
20 closing the chamber *a*; D, cap screwing into the bolt C and closing the chamber *a*. This cap is burred upon its edge, so as to be readily screwed in and out with the fingers.

25 The chamber *a* being suitably filled, the contents remain inert as long as the pin is prop-

erly oiled and remains cool; but in case of heating they become liquefied and flow out through the passages *b b*, supplying the lubricant required.

The cap D furnishes a convenient means of  
30 examining the contents and refilling the chamber without disturbing the other parts, while, by unscrewing the bolt C and removing the flange B, the fit of the boxes may be readily examined when desired. 35

This invention is also applicable to the studs for idle-wheels, rocker-pins, and other similar purposes.

The operation of my device will be readily understood without further explanation. 40

What I claim as new, and desire to secure by Letters Patent, is—

The combination of the pin A, with its chamber *a* and passages *b b*, flange B, hollow bolt C, and cap D, all constructed and operating  
45 substantially as shown and described.

D. A. WOODBURY.

Witnesses:

ALVAH STRONG,  
HENRY A. STRONG.