

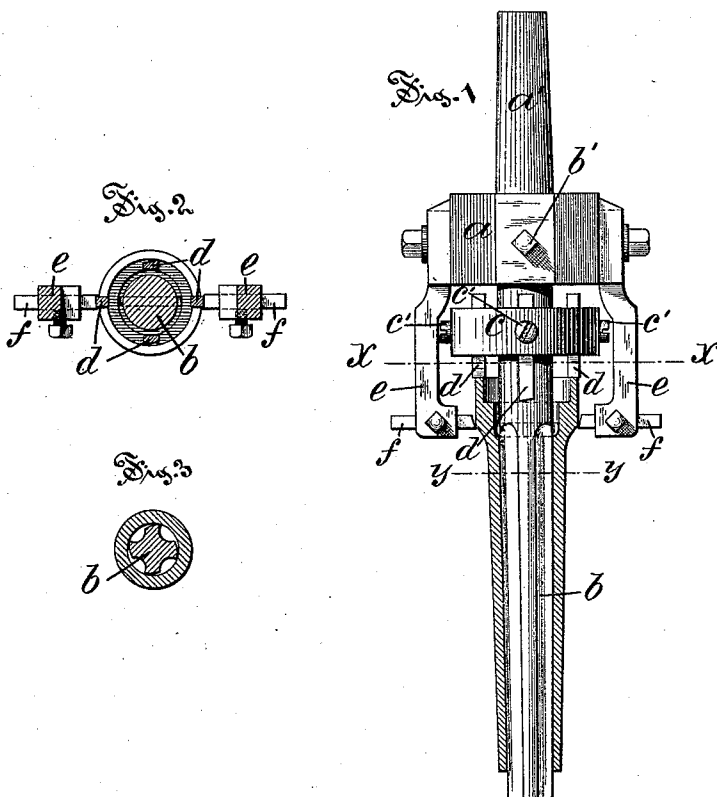
(No Model.)

W. C. DALZELL.

MACHINE FOR WORKING AXLE BOXES.

No. 351,692.

Patented Oct. 26, 1886.



Witnesses:

W. M. Yorkman

Harry R. Williams.

Inventor

William C. Dalzell,

by Simonds & Burdett,  
attys

# UNITED STATES PATENT OFFICE.

WILLIAM C. DALZELL, OF SOUTH EGREMONT, MASSACHUSETTS.

## MACHINE FOR WORKING AXLE-BOXES.

SPECIFICATION forming part of Letters Patent No. 351 692, dated October 26, 1886.

Application filed June 22, 1886. Serial No. 206,335. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM C. DALZELL, of South Egremont, in the county of Berkshire and State of Massachusetts, have invented a certain new and useful Improvement Pertaining to Machines for Working on Axle-Boxes, of which the following is a description, reference being had to the accompanying drawings, where—

10 Figure 1 is what may be called a side view of my device with the axle-box, which is under operation, cut in central longitudinal section. Fig. 2 is a detail view in horizontal cross-section on the plane *xx*. Fig. 3 is a detail view in horizontal cross-section on the line *yy*.

This is a machine or device intended for working on the inside and outside of an axle-box at the same time.

20 The letter *a* denotes what may well be termed the "boring-head," bearing a pintle, *a'*, intended to be inserted into an upright revolving shaft, and thereby given proper rotation.

25 The letter *b* denotes a reamer for working on the inside of the axle-box. It is held into the boring-head by the set-screw *b'*. On the

upper part of the reamer *b* is carried the socket-ring *c*, having on the inside sockets for boring and cutting tools *d*, which are held to place by the set-screws *c'*. As indicated in the drawings, the reamer *b* is working on the interior of the body while the tools *d* are working on the inside and end of the enlarged part of the box.

The letters *e* denote tool-holders fixed to the boring-head *a*, which carry tools *f*, which work upon and finish the outside of the enlarged part of the box at the same time that the work on the inside is in progress.

I claim as my improvement—

1. In combination, the interior reamer or boring-tool *b*, boring-head *a*, tool-holders *e*, and tools *f*, for working on the exterior of the box, all substantially as described, and for the purpose set forth.

2. In combination, the reamer or boring-tool *b*, the tools *d*, the boring-head *a*, the tool-holders *e*, and the tools *f*, substantially as described, and for the purpose set forth.

WM. C. DALZELL.

Witnesses:

ROSCOE C. TAFT,  
E. W. WARD.