

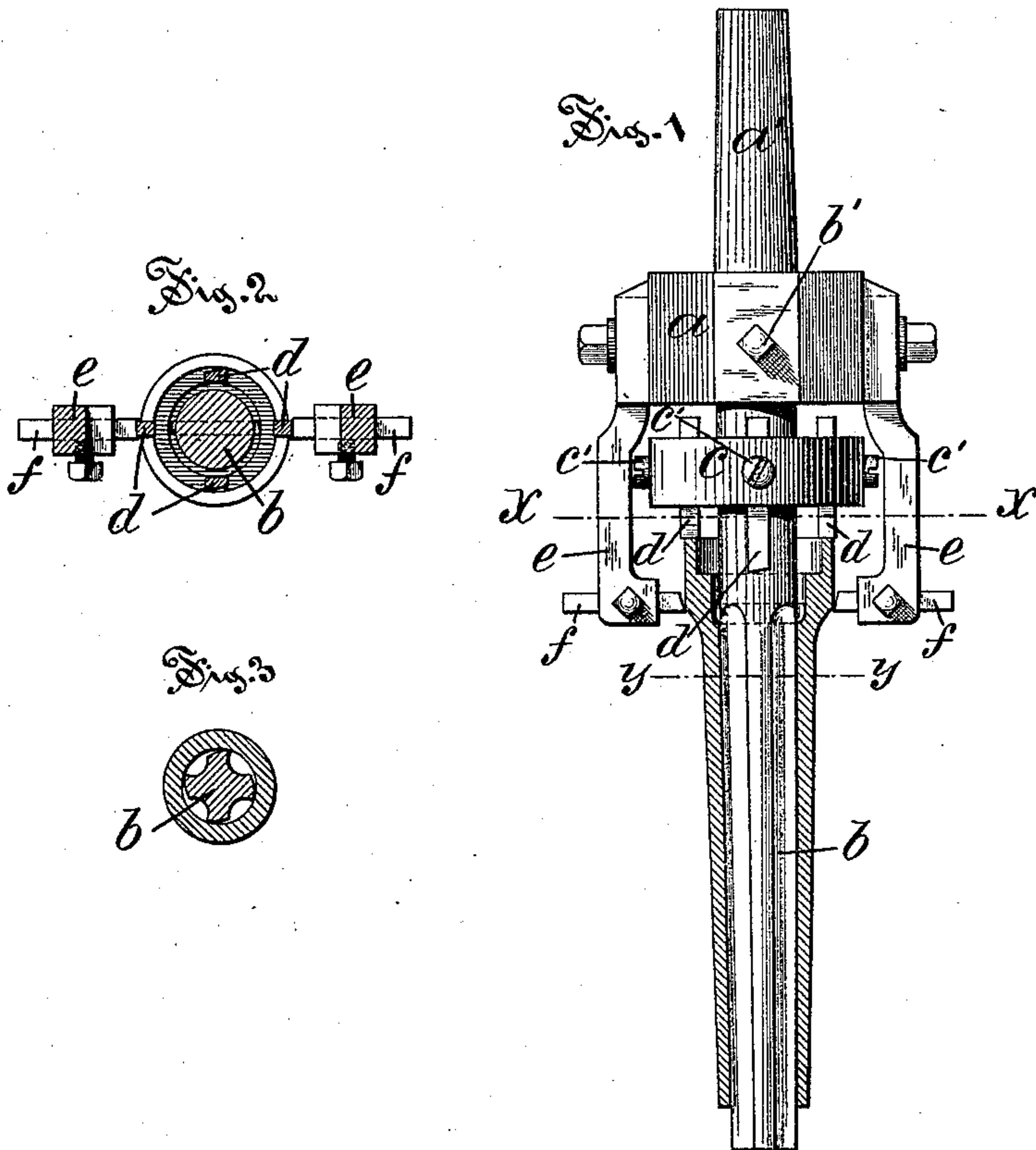
(No Model.)

W. C. DALZELL.

MACHINE FOR WORKING AXLE BOXES.

No. 351,692.

Patented Oct. 26, 1886.



Witnesses:

Wm. 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 28, 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.