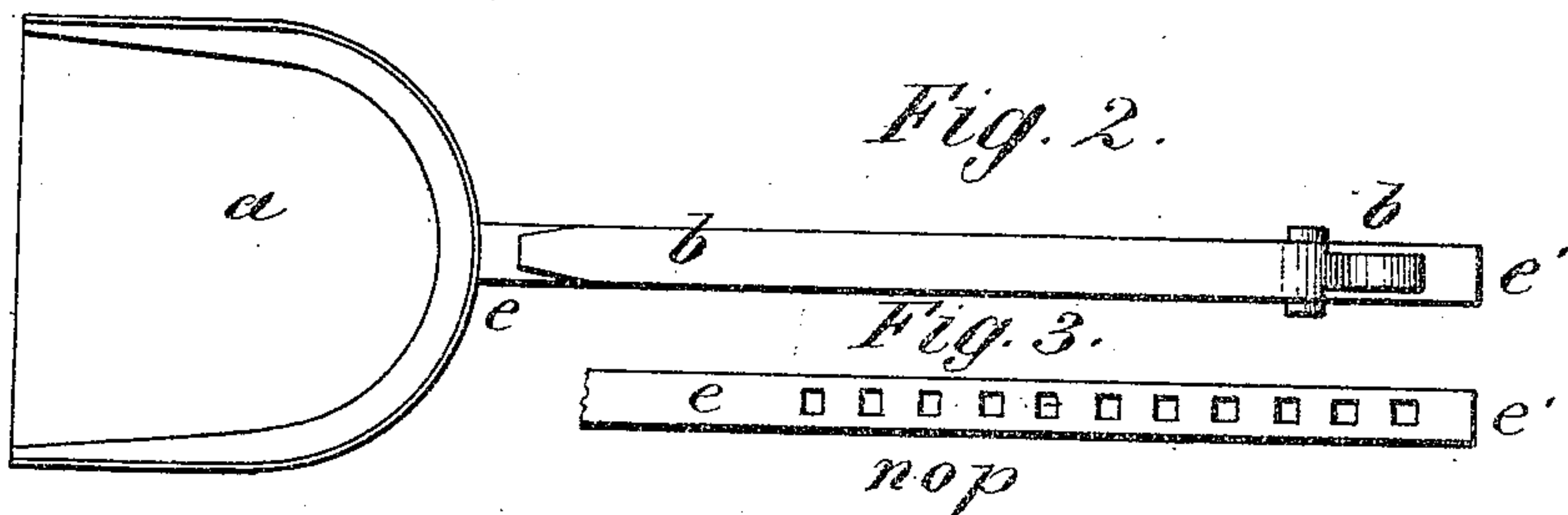


F. M. KETCHAM.

Fire-Shovels.

No. 143,018.

Patented September 23, 1873.



*Witnesses*

Fred Werbe  
F. M. Donald

*Inventor*

Frank M. Ketcham  
by C. M. Donald  
his attorney in fact

# UNITED STATES PATENT OFFICE.

FRANK M. KETCHAM, OF INDIANAPOLIS, INDIANA.

## IMPROVEMENT IN FIRE-SHOVELS.

Specification forming part of Letters Patent No. **143,018**, dated September 23, 1873; application filed January 22, 1873.

*To all whom it may concern:*

Be it known that I, FRANK M. KETCHAM, of the city of Indianapolis, county of Marion and State of Indiana, have invented a new and useful Improvement in Fire-Shovels, of which the following is a specification:

The nature and object of the invention will be understood from the following general description.

Figure 1 of the accompanying drawings is an edge view of the device; Fig. 2, a top view of the same; Fig. 3, a detached view of the bottom of the handle *e e'*; Fig. 4, a view in outline, showing how the device is used.

A shovel of the shape represented in Figs. 1 and 2 is provided with an arm, represented by *b c*. This arm hinges in a slide, *d*, so that it may be laid down upon the top of the shovel-handle, or the end *b* may be raised up, as shown in Fig. 4, by turning the arm upon its pivot in the slide *d*. When the arm *b c* is lying down upon the top of the shovel-handle, the slide *d* may be moved to any desired place on the handle, and even pulled off if it be desired; but to prevent this slide from slipping when the arm *b c* is raised, as shown in Fig. 4, the shovel-handle is provided with a series of holes, represented by *n o p*, into which the tine *c* works when the arm *a b* is drawn up.

This device is used for base-burning coal-stoves, as follows: When the fire has gone

out, or for any other reason it is desirable to clean off the fire-grate without disturbing the coal in the magazine, the shovel is to be placed under the bottom of the magazine *f*, so that its blade will hold up the coal, the handle resting upon the lower edge of the window *g h*, and being propped by the arm *b c*. The end *b* of this arm *b c* rests against the lower edge of the molding *s*, and the tine *c* rests in one of the holes *n o p* of the shovel-handle, all as shown in outline in Fig. 4. In this way the coal will be held securely in the magazine until the fire-grate can be cleaned and supplied with proper kindlings.

If it be desirable to have a poker, the slide *d* can be slipped entirely off of the handle *e e'* releasing the arm *b c*, which can be used for that purpose.

I claim—

The arm *b c* and the slide *d*, in combination with the perforated handle *e e'* of a shovel, constructed and arranged substantially as herein set forth.

In testimony that I claim the foregoing specification I hereunto set my hand this 6th day of January, 1873.

FRANK M. KETCHAM.

Witnesses:

CH. ZOURATA,  
F. M. McDONALD.