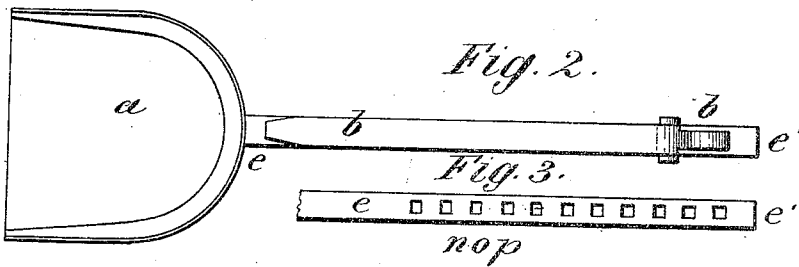
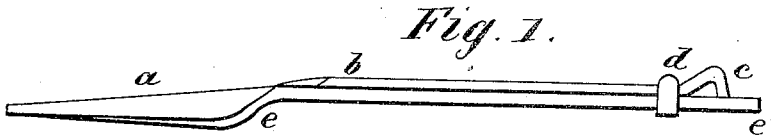


F. M. KETCHAM.
Fire-Shovels.

No. 143,018.

Patented September 23, 1873.



Witnesses

Fred Wente
F. M. Donald

Inventor

Frank M. Ketcham
by C. W. 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.