

H. GASKELL.
Grates for Coal Stoves.

No. 152,477.

Patented June 30, 1874.

Fig 1.

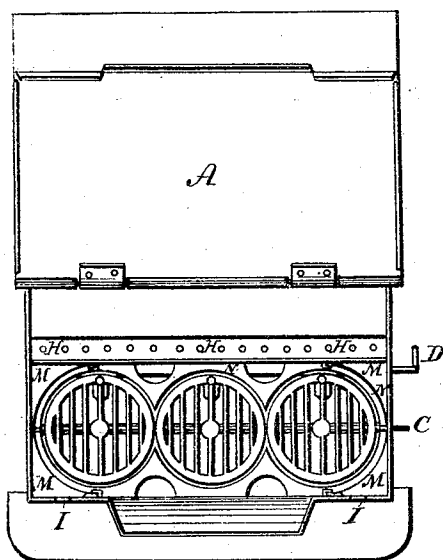


Fig 2.

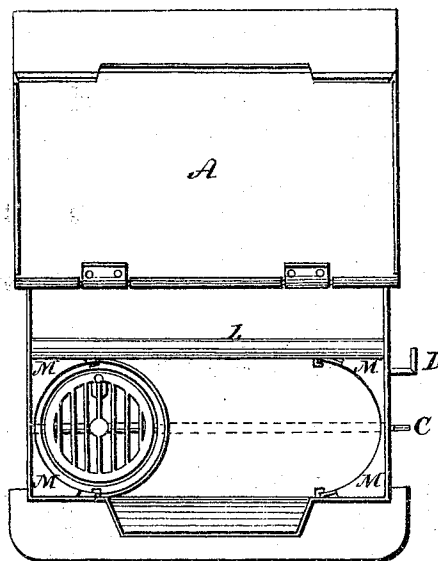


Fig 3.

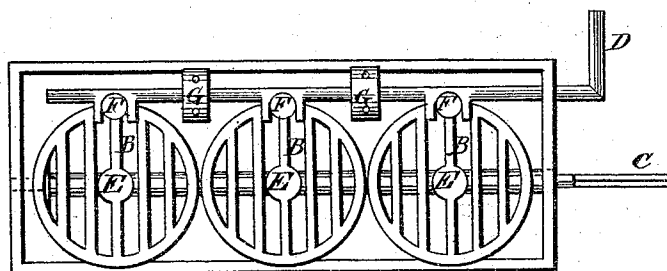


Fig 4.

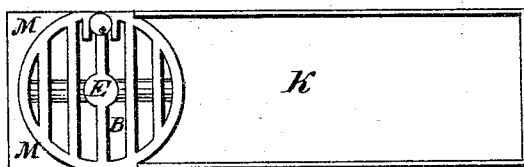
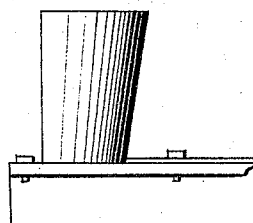


Fig 5.



Witnesses

John H. Young
George Duffus

Inventor.

Henry Gaskell

UNITED STATES PATENT OFFICE.

HENRY GASKELL, OF HAMILTON, CANADA.

IMPROVEMENT IN GRATES FOR COAL-STOVES.

Specification forming part of Letters Patent No. **152,477**, dated June 30, 1874; application filed ,
March 2, 1874.

To all whom it may concern:

Be it known that I, HENRY GASKELL, of the city of Hamilton, in the county of Wentworth, in the province of Ontario, in the Dominion of Canada, have invented certain Improvements in Grates for Coal-Stoves and Furnaces, of which the following is a specification:

My invention relates to combined grates fitted in the fire-box, on the dumping-bar which carries the several grates. There is a shaking-bar fitted in the back of the fire-box or grate, having a projecting holder on it for each of the grates, there being a nipple cast on the flange or rim of each of the grates which the holder clasps, so that all the grates can be shaken or dumped at the same time.

Figure 1 is a plan of the stove with the fire-box and combined grates fitted in it; Fig. 2, plan of stove with the stop-off plates over two of the grates; Fig. 3, enlarged plan of the fire-box and combined grates; Fig. 4, enlarged plan of same with the stop-off plate fitted

on; Fig. 5, enlarged side view of the stop-off plate.

A, top of stove; B, combined grates; C, dumping-bar; D, shaking-bar; E, center-pivot in grate; F, nipples on the grate-bars; G, socket or bearings; H, holes in bottom of air-chamber; I, holes in front plate of stove; K, stop-off plate; L, air-space at the back of fire-box; M, circular air spaces at ends of fire-box; N, sides of fire-box, (fitted in stove.)

Disclaiming all other parts of the fire-box and grates,

What I claim as my invention is—

The combination and arrangement of the several parts, namely, the grates B, dumping-bar C, and shaking-bar D, having the projecting holders embracing the nipples F on the rim of the grates, all operating as and for the purposes above set forth.

HAMILTON, ONTARIO, June 10, 1874.

Witnesses: HENRY GASKELL.

R. B. CRONIN,
JOHN H. YOUNG.