(No Model.)

J. M. R. KENNEDY.

ATTACHMENT FOR FLOUR BOLTS.

No. 314,137. Patented Mar. 17, 1885.

Fig. 1.

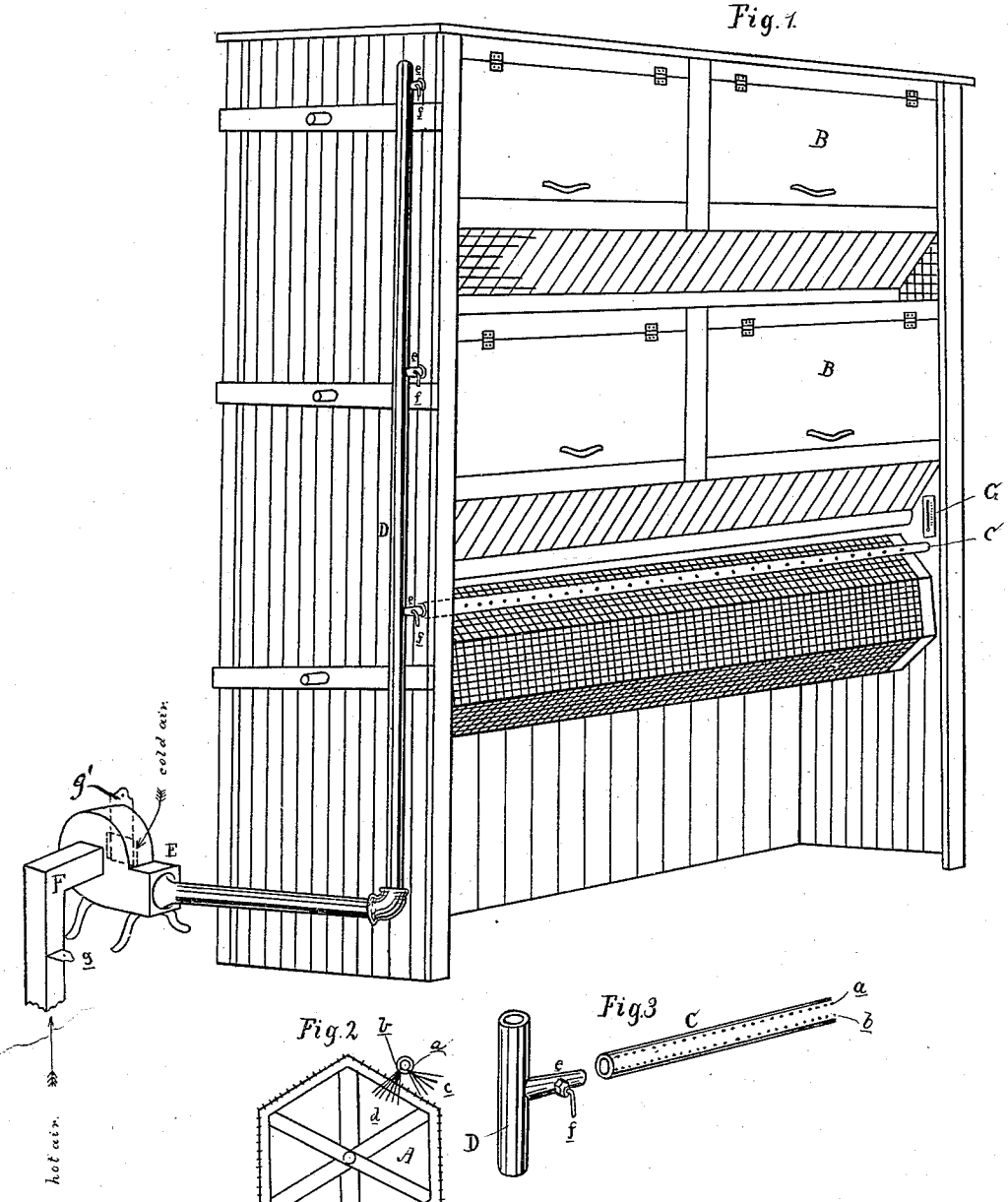


Fig. 2

Fig. 3

Attest:
John Schumann.
A. J. Sprague

Inventor:
James M. R. Kennedy.
by his Att'y
Thos. S. Sprague

N. PETERS. Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

JAMES M. R. KENNEDY, OF DUSHVILLE, MICHIGAN.

ATTACHMENT FOR FLOUR-BOLTS.

SPECIFICATION forming part of Letters Patent No. 314,137, dated March 17, 1885.

Application filed September 10, 1884. (No model.)

To all whom it may concern:

Be it known that I, JAMES M. R. KENNEDY, of Dushville, in the county of Isabella and State of Michigan, have invented new and useful Improvements in Attachments for Flour-Bolts; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to certain new and useful improvements in attachments to flour-bolts, such as are ordinarily employed in mills, by means of which the requisite temperature of the bolts may be secured, and the cloth be prevented from clogging by a discharge-current of air in different directions.

The invention consists in the peculiar construction and combination of parts to produce this result, as more fully hereinafter described and claimed.

In the accompanying drawings, which form a part of this specification, Figure 1 is a perspective showing my attachment as applied to flour bolts or reels. Fig. 2 is a vertical central cross-section through one of the reels with my attachment. Fig. 3 is a detached view showing the adjustable nipple-connection.

A represents a polygonal flour bolt or reel of the ordinary construction; B, the casings which conceal other similar flour-bolts.

C is an air-pipe provided with two series of perforations, *a* and *b*, the former being designed to throw jets of air across the outer face of the bolt, as shown at *c*, while the latter discharges similar jets through the bolt directly toward its axial center, as at *d*.

D is an air-supply pipe connected at one end to a blower, E, and by means of nipples *e* connects such blower with the pipes C, there being as many nipples and pipes as there are flour-bolts in the battery, and the flow of air through such nipples is regulated by the valves *f*. The pipes C are sleeved on these nipples, so that such pipes may be easily turned to give the proper direction to the jets of air, as above described.

E is a blower having a central entrance for air upon each side, one of which connects by means of the pipe F with any source of supply for heated air, while the opposite side is open to the atmosphere and regulated by a sliding gate, *g'*. The pipe F is provided with a valve, *g*, by means of which the supply of heated air may be regulated as desired, to temper the cold-air supply to the proper temperature to produce the requisite dryness in the bolts as discharged through the pipe C.

G is a thermometer, one of which should be placed in each bolt-chest, so that the operator may determine how much heated air is required to keep up the requisite temperature.

Experience teaches me that by the use of this attachment I not only keep the bolt-cloths in perfect condition, but that I evaporate the moisture arising from the chop in the bolt; and I obtain the greatest possible results from such bolts, for by keeping the cloth in the condition described I am enabled to operate upon nearly if not quite double the amount of chop from the stones or grinders than heretofore.

What I claim as my invention is—

The bolt A, perforated pipe C, and pipe D, in combination with the blower E, having adjustable inlets for hot and cold air, as and for the purposes set forth.

JAMES M. R. KENNEDY.

Witnesses:
H. S. SPRAGUE,
CHARLES J. HUNT.