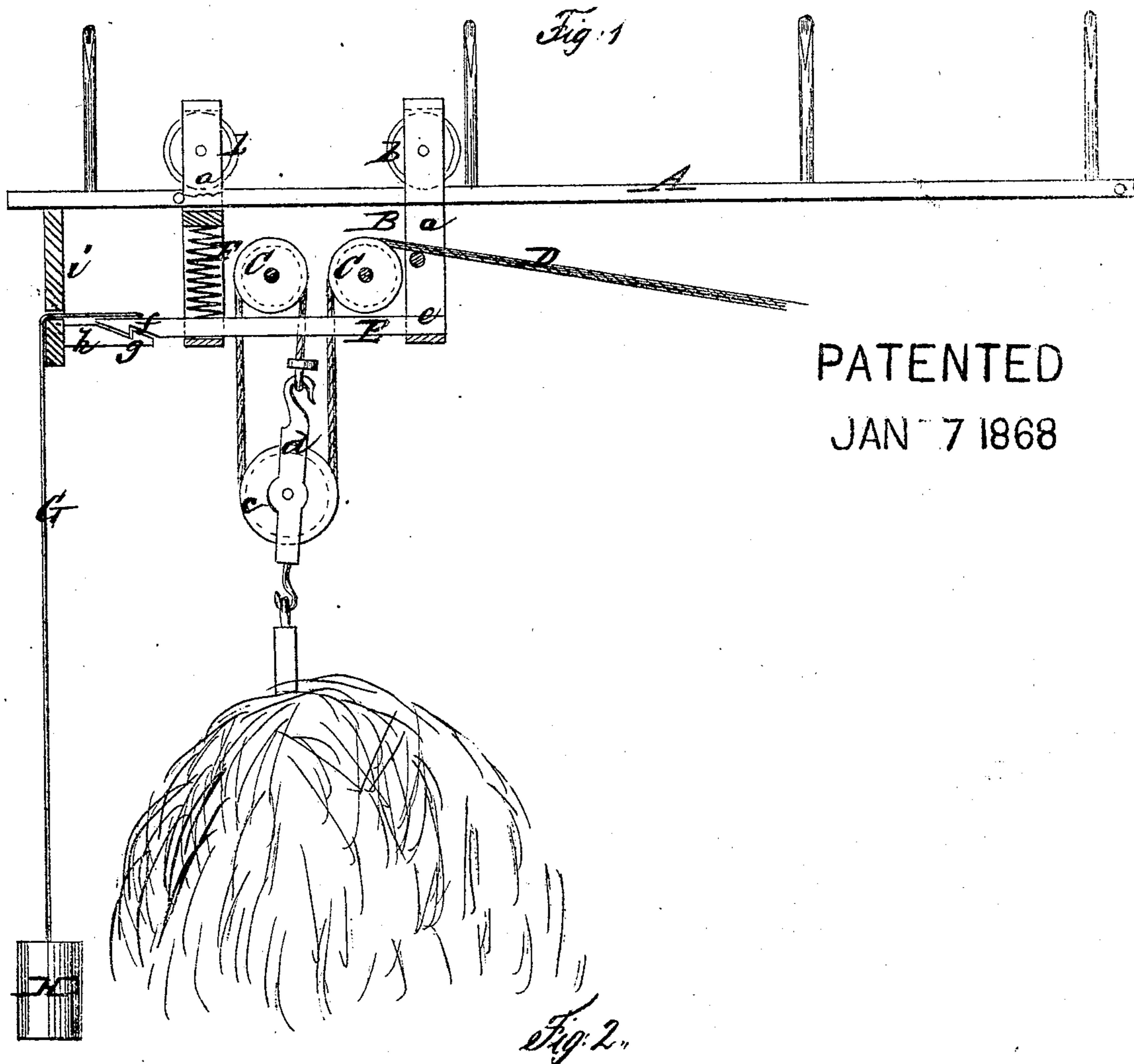



73190 *Hay Elevator.*

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Hay Elevator:



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UNITED STATES PATENT OFFICE.

HARVEY McCOWN AND LUTHER M. McCOWN, OF ENON VALLEY, PA.

IMPROVEMENT IN HAY-ELEVATORS.

Specification forming part of Letters Patent No. 73,190, dated January 7, 1868.

To all whom it may concern:

Be known that we, HARVEY McCOWN and LUTHER M. McCOWN, of Enon Valley, in the county of Lawrence and State of Pennsylvania, have invented a new and Improved Hay-Elevator; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention relates to a new and improved device for elevating hay from wagons and depositing it in bays or mows in barns, or upon a stack.

The object of the invention is to obtain a device, for the purpose specified, which will admit of the hay not only being elevated with facility, but also being conveyed, after it reaches its highest point, over the spot where the hay is to be discharged.

In the accompanying sheet of drawings, Figure 1 is a side view of our invention, partly in section; Fig. 2, a plan or top view of the same.

Similar letters of reference indicate like parts.

A represents a way, which is secured in the upper part of a barn or building in which hay is to be stored or mowed. This way A may be secured to the rafters, or to any elevated portion of the frame of the building, in any proper manner.

B represents a carriage, having upright metal bars *a* attached to it, two at each side. These bars *a* have rollers *b* at their upper ends, which work or travel on the way A, the carriage being underneath the way, as shown clearly in Fig. 1.

Within the carriage B there are placed two rollers, C C, over which a rope, D, passes, said rope also passing under a sheave, *c*, the strap or block *d* of which is provided with a hook to receive the hay-fork, as shown in Fig. 1.

E is the bottom of the carriage, one end of which is secured to the carriage at *e*, the op-

posite end being free, and having a spring, F, bearing upon it, which spring has a tendency to keep the free or disengaged end of the bottom down. This end of the bottom extends beyond the carriage, and has a notch, *f*, made in its under side, to catch over a shoulder, *g*, on an arm, *h*, attached to a pendent bar, *i*, which is secured to the way A.

G is a cord or rope attached to one end of the carriage, and passing through a hole in the pendent bar *i*. This cord or rope has a weight, H, secured to its end, and this weight has a tendency to draw the carriage toward the bar *i*, so that the notch *f* in the projecting end of the bottom will engage with the shoulder *g* of the arm *h*, and the carriage B held in position while the loaded fork is being elevated.

Without this catch or fastening, the carriage would be moved on the way A, under the pull of the rope D, while the loaded hay-fork is being elevated. As, however, the fork reaches its culminating point the top of the strap or block *d* will come in contact with the bottom E of the carriage, and raise said bottom, so that the notch *f* will become disengaged from the shoulder *g*, and the carriage then, under the pull of rope D, will be moved along on the way A until the loaded fork arrives over the spot where the hay is to be discharged, when the carriage is stopped, the fork tripped, and the load discharged.

As the rope D is slackened by the backing of the horse, the weight H draws back the carriage and causes the bottom E to engage with the shoulder *g*. The rope D being still slackened, the fork descends, and is refilled or re-loaded and hoisted, and the carriage drawn along on the way, as before, and the fork tripped when brought over the desired spot, and its load discharged.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. The carriage E, constructed as described, when its bottom consists of the bar E, hung at one end, *e*, of the carriage, its free end extending beyond the opposite side of said car-

riage, and notched at *f* to fit over the catch *h* upon the pendant *i*, said bottom *E* being held in position by means of the coiled spring *F*, and released by the pressure of the hook *d*, as herein described, for the purpose specified.

2. The combination of the hinged and notched bottom *E*, coiled spring *F*, hook *d*, pendant *i*, catch *h*, rollers *C C*, and side bars

a a, all constructed and arranged as described, for the purpose specified.

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Witnesses:

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