



# UNITED STATES PATENT OFFICE.

GEORGE J. SCHLOSSER, OF LEADVILLE, COLORADO.

## FEED-BOX.

SPECIFICATION forming part of Letters Patent No. 490,045, dated January 17, 1893.

Application filed May 16, 1891. Serial No. 393,039. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE J. SCHLOSSER, a citizen of the United States, residing at Leadville, in the county of Lake and State of Colorado, have invented certain new and useful Improvements in Feed-Boxes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improved feed box, its object being to clean the grain fed to animals; and my invention consists in certain novel features of construction to be hereinafter described and then particularly pointed out in the claims.

In the accompanying drawings: Figure 1 is a front elevation of my feed box showing it hung in position. Fig. 2 is a vertical section on line II—II, Fig. 1. Fig. 3 is a vertical section on line III—III, Fig. 2.

*a* indicates the back, *b, b*, the sides of the feed box, across the front, at the lower end of which is secured the feed trough *c*.

At the top of the box is a cross-strip *d* secured to the front of the forwardly projecting portions *b', b'*, of the sides *b, b*, and below which is located the downwardly and rearwardly inclined board *e*. Below this board *e*, and also secured to the sides *b, b*, is a lower cross-strip *f*. The top of the back *c'* of the feed-trough *c* and the bottom of the strip *f* are respectively provided with rabbet-grooves *g, g'*, into which is guided the slide or door *h*. The strip *d*, board *e*, strip *f*, slide *h* and trough *c*, completely close the front of the box.

Within the upper end of the box and secured to the sides *b, b*, are parallel horizontal rests or cleats *i, i*, located below the extreme top so as to afford a space *j* above. Upon these cleats *i, i*, rests a sieve *k* provided with a surrounding beading *k'*, between the flattened sides of which the edges of the sieve are firmly secured. Projecting upwardly from each end of the sieve is a handle or lifter *l*, whereby the sieve is readily placed in and removed from the space or receptacle *j*. Below the cleats *i, i*, is a sieve *m*, of finer wire fabric than sieve *k*, inclined from one side of the box to the other and secured to the inner

walls of the box on all sides. At the lower end of the sieve *m*, is an opening *m'*.

Leading from the opening *m'* at one side of the box to the other side is a downwardly inclined screen *n*, and leading from the lower open end of the latter is another downwardly inclined screen *o*, which leads back to the other side of the box. These screens *n* and *o* are constructed similarly and are composed of wire fabric bottoms *p* and upturned sides *q* which are secured by solder or in any other suitable way to the metal or other tops *r*, which are inclined on opposite sides to form dirt sheds. The width of the screens is less than the distance between the front and back of the box so as to leave spaces *w* on each side. From the open lower end of the lower screen *o* leads a forwardly extending chute *s*, which passes through an opening *t* in the back of the feed-trough *c*.

In the inner walls of each side *b, b*, of the box are horizontal grooves *u, u*, below the feed-trough which receive the slide *v*.

The box is hung in position by means of chains or other suitable hangers *w* attached to the ends of the feed-trough *c* and to the top of the feed box on each side, whereby the box is movably or loosely supported.

My improved box is used as follows: The grain is introduced into the top of the box and placed upon the movable sieve *k* which removes all sticks, straw or other coarse substances that may be with the grain. From the sieve *k* the grain falls upon the inclined sieve *m* and passes out through the opening *m'*, whence it passes into the inclined screens *n, o*, and is thoroughly cleansed from impurities. After passing through the sieves and screens the grain falls out of the chute *s* into the feed-trough *c* in a thoroughly clean condition. In passing through the inclined screens the dirt will fall out of the grain through the sides as well as the bottom thereof, and drop onto the sloping sides of the covers *r*, and thence slide off laterally onto the slide *v* at the bottom of the box, where by opening the slide the dirt is removed. The slide *h* at the front of the box affords access to the screens, whereby they can be cleaned.

The chains *w* suspend the box in perpen-

dicular position, whereby it is adapted to swing, so that when the animal is feeding the box is shaken, causing the grain to settle and be cleaned.

5 Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

10 1. The combination in a feed box suspended to swing or vibrate, a series of inclined sieves located within the box, said sieves being provided with covers, a feed trough at the bottom of the box, and an inclined chute emptying into the trough, substantially as described.

15 2. The combination of a swinging feed box having a removable screen located near its top, a series of inclined screens located below said removable screen, and provided with covers to form dirt sheds, and an inclined

chute near the bottom of the box emptying into the feed trough, substantially as described. 20

3. The combination with a flight of vibrating or swinging inclined screens, of a feed trough located at the lower terminus of said flight and into which the feed discharges, 25 said trough being arranged to swing or vibrate with the screens, whereby the feed is screened by the movements of the animal's head, as and for the purpose set forth.

In testimony whereof I affix my signature in 30 presence of two witnesses.

GEORGE J. SCHLOSSER.

Witnesses:

JAMES S. MANLY,  
HENRY C. ROSE.