

June 1, 1915.

DRAWING

1,088

A careful search has been made this day for the original drawing or a photolithographic copy of the same, for the purpose of reproducing the said drawing to form a part of this book, but at this time nothing can be found from which a reproduction can be made.

Finis D. Morris,
Chief of Division

AWK.

UNITED STATES PATENT OFFICE.

OLONZO R. DINSMOOR, OF CHESTER, NEW HAMPSHIRE.

CORN-SHELLER.

Specification of Letters Patent No. 1,088, dated February 24, 1839.

To all whom it may concern:

Be it known that I, OLONZO R. DINSMOOR, of Chester, in the county of Rockingham and State of New Hampshire, have invented a new and useful Improvement in Harris's Corn-Shellers; and I do hereby declare that the following is a full and exact description of the construction and operation of the same.

10 The nature of my invention consists in making the cards or shelling plates of the sheller one concave and the other convex.

To enable others skilled in the art to make and use my invention I will proceed to describe its construction and operation.

15 In the accompanying drawings, Figure 1 is a perspective view of the sheller and Fig. 2 a vertical section through its length.

20 My machine consists of two plates set or cast with teeth and connected at one end by a pivot or hinge, one of them to be provided with a handle at the end opposite the hinge by which it is to be rubbed across the surface of the other, which is previously screwed or otherwise made fast to some stationary body. An oblong form may be given to the plates A, and B, of about nine by fourteen inches, the lower one or bed plate B, to be perforated with screw holes, 30 one of which is shown at *c, c*, by which it may be attached firmly to any permanent body. The upper one has a handle *d*, extending from one end, and both have at the opposite ends (which are to match) a projection *e, e*, of the same thickness as the plates. A hole *f*, is made through each of these projections vertically to receive a bolt *g*, which forms the pivot or hinge of the

plates. The hole in the upper plate is elongated to allow for its rise and fall on the bolt in the manner of a hinge, and the hole in the under plate is countersunk below rather more than half way through to receive a spiral spring *h*, shown in the sectional drawing, surrounding the bolt, constantly exerting a downward pressure, which tends to draw the two plates together during their operation and accommodates their distance to the size of the ear of corn between them. A small pin *i* passes horizontally through the projection of the upper plate and the bolt which secures them together. The inner surface of the two plates are concave and convex, matching each other, and this constitutes my improvement, the advantages of which are that in having the surfaces of the plates concave and convex the cob is bent and the corn opened, thereby rendering it much easier shelled. Also by bending the cob the tip end is brought in contact with the teeth of the convex plate, which shells it clean. The spring attached to the bolt adapts the machine to the shelling large or small ears of corn.

65 What I claim as my invention and desire to secure by Letters Patent is—

Making the shelling plates or cards concave and convex in the manner and for the purpose herein described and this I claim as an improvement on a patent previously granted.

OLONZO R. DINSMOOR.

Witnesses:

DAVID CURRIN, Jr.,
STEPHEN EMERSON.