

G. C. BALLARD.

Improvement in Hand Corn-Shellers.

No. 132,708.

Patented Nov. 5, 1872.

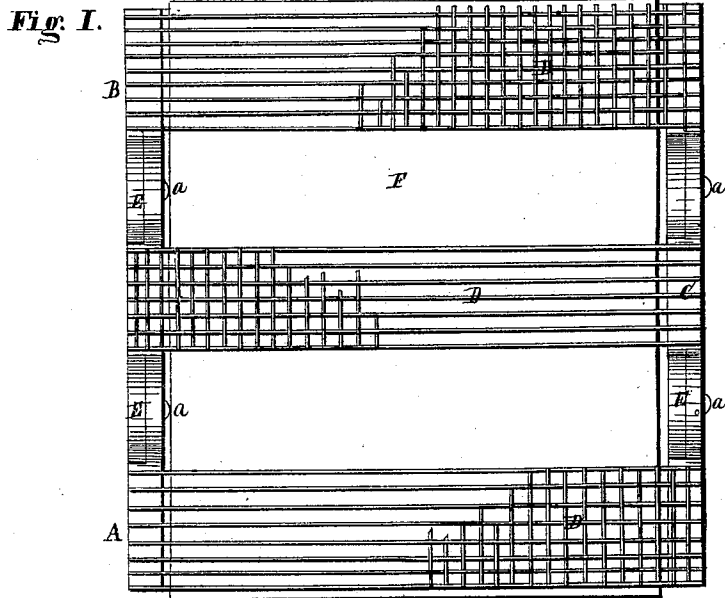


Fig. 2.

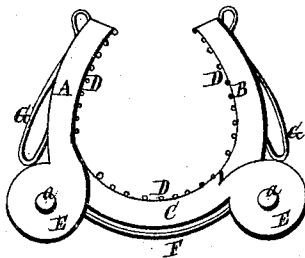
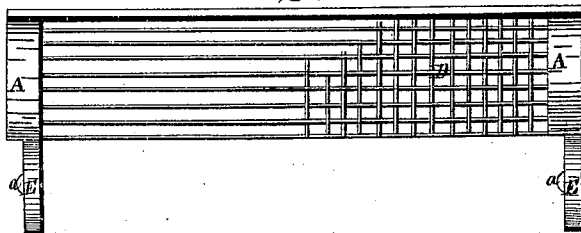


Fig. 3.



Witnesses.

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UNITED STATES PATENT OFFICE.

GEORGE C. BALLARD, OF CLEVELAND, OHIO.

IMPROVEMENT IN HAND CORN-SHELLERS.

Specification forming part of Letters Patent No. 132,708, dated November 5, 1872.

To all whom it may concern:

Be it known that I, GEORGE C. BALLARD, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and Improved Hand Corn-Sheller; and I do hereby declare that the following is a full, clear, and complete description thereof, reference being had to the accompanying drawing making part of the same.

Figure 1 is an inside view of the sheller as when spread open. Fig. 2 is an end view of the sheller when closed for use. Fig. 3 is a detached section.

Like letters of reference refer to like parts in the several views.

The object of this invention is to shell corn by hand; and consists of a pair of frames connected to each other by a pair of links, said links being pivoted to the frames, thereby making a flexible connection. Each of the two frames is alike provided on the inside with a web of wire-netting; so also are the two links attached to each other by a similar web of wire-netting.

A more full and detailed description of the corn-sheller is as follows: A B represent the two frames above referred to. A detached view of one of them is shown in Fig. 3. Said frames are concave on the inner side, whereas the outer sides are convex; so, also, are the links C alike concavo-convex, and the webs of wire-gauze D are made to conform therewith, as shown in Fig. 2. The three sections are connected to each other by pivotal joints *a*, formed by the ears E, constituting the joints of the sections. The outer sections or frames A B are also connected to each other by a band of leather, F, or other suitable material, the leather being attached to the bars of the frames, which form the back of the sheller. G are a pair of loops, in which the thumb and finger are inserted for holding the sheller while in use.

The practical operation of the above-de-

scribed corn-sheller is as follows: The operator inserts his thumb and the middle finger each in one of the loops G, thereby bringing the palm of the hand upon the back of the sheller. By this means the sheller becomes a supplementary palm for the hand, which is opened and closed by opening and shutting the fingers. In the left hand is held an ear of corn by one end. The opposite end is then grasped by the jointed sheller, which is opened and then closed around it for that purpose. A twist is now given to the ear, or the ear is held firmly while the sheller is wrenched around the ear, by which means nearly all the grain clasped by the sheller is loosened at once, which is done with less effort than is required to start one kernel for the reason that the grain on the sides of the one kernel binds it in, so that it can be moved only by great effort; but when all the kernels grasped by the sheller are started at once, which they will be in this use of the sheller, the grain is easily wrung from the cob. The interstices or meshes of the wire-netting are of that dimension to allow the kernels to fit therein; hence a hold is had on very many of them at once, so that a general strain is exerted upon them and they become loose and fall from the cob.

Claims.

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

1. The wire netting or gauze D, in combination with the jointed sections or frames A B and links C, substantially in the manner as described, and for the purpose set forth.

2. The combination of the frames A B, links C, wire-netting D, and leather back F, or other flexible material, in the manner as described, and for the purpose specified.

GEO. C. BALLARD.

Witnesses:

JOHN H. BURRIDGE,
A. F. CORNELL.