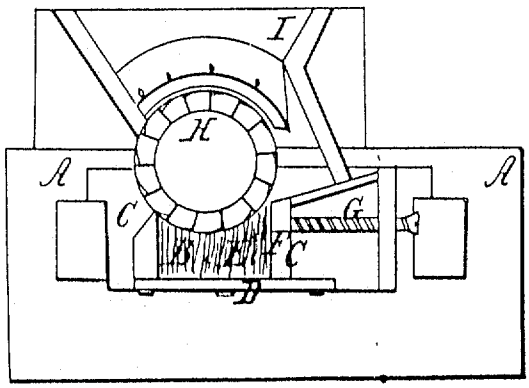
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J. Cooper.

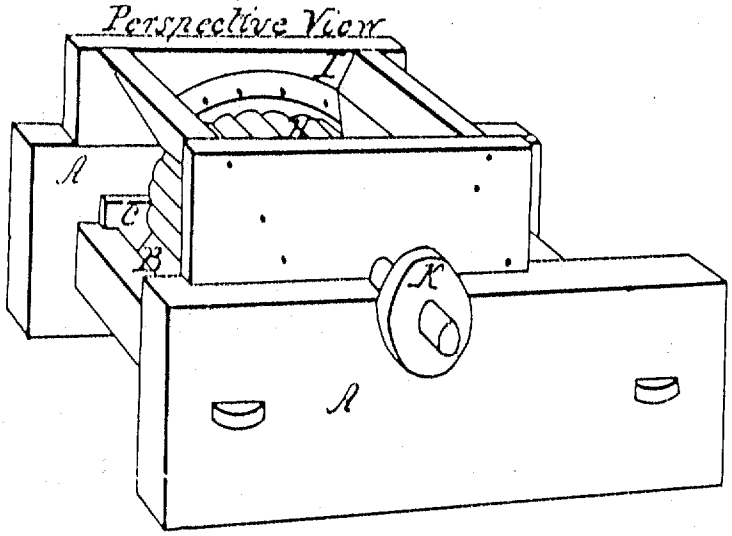
Clover Huller.

Patented Feb. 20, 1836.

Section



Perspective View



A. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

9415 X

Feb. 20, 1836

James Coopers of Penn County Ohio

Letters Patent

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said James Cooper himself of his improvement in the machine for Thrashing Clover and other seed

Be it known that I James Cooper of Penn County, State of Ohio have made a new and useful improvement in the machine for thrashing and cleaning clover and other small seeds, which is described as follows, reference being had to the annexed drawing of the same making part of this Specification. This machine consists of the following principal parts. 1. The frame. 2. The concave or bed. 3. The thrashing or rubbing cylinder. 4. The hopper. 5. The gearing. 1. The frame (marked A in the drawing) is made similar to the frame of a common thrashing machine, of sufficient size and strength to contain and support the machinery hereafter described. 2. The concave or bed B is made in the following manner. Make a Box C. as wide as the cylinder is long with a false bottom D. fill this box with shaw C. placed endways. Then a removable board F. or piece of timber in one end of the box against the shaw and force it forward by screws G. or wedges to compress the shaw. next to the cylinder are then to be cut off in such a manner as to form a concave, corresponding to the cylinder and extending half round it, as shewn at b. This box and concave are then placed under the cylinder in the frame.

The concave may also be formed by placing the cylinder in the box and then inserting the shaw through the bottom of the box with the ends thereof resting against the circumference of the cylinder which will form the concave without the necessity of cutting it out. The removable board is to be driven against the shaw by means of the screws or wedges as before described and directed. after which the lower ends of the shaw are to be cut off and a slide or board placed against the shaw and

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and secured in grooves, or by screws to keep the straw firmly in its place. Instead of straw for the bed the material may be broom corn used cut in fine splits, bristles, shavings of grass, whale bone split or any similar material compressed in the manner before described. 3. The threshing or rubbing cylinder K is made by sawing spiral [illegible] grooves lengthwise the cylinder around its whole circumference into which are inserted plates of metal and in front of each plate the wood of the cylinder is cut away in order to form a notch, flute or groove, and when the edges of the plates are worn down even with the wood the notches or grooves may be renewed by again burning away the wood in front of the plates. 4. The hopper L is made in the usual manner. 5. The gearing consists of a pulley K on the end of the shaft of the threshing cylinder, a crank which passes a band leading to the pulley of the driving power.

Operation. The machine being put in motion by manual, horse or other power, the seed to be rubbed out is put into the hopper when it is struck or caught by the notches flutes, or bars of the cylinder and forced over the ends of the straw of the bed which separates the seed from the heads. What I claim as my invention and which I desire to secure by letters Patent consists in the before described mode of making the concave or bed of straw broom corn bristles, split whale bone or of other similar material. Also the mode of using the cylinder.

Witnesses,
Wm. P. Elliot
B. R. Morsell

James Crozier.

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Drawing