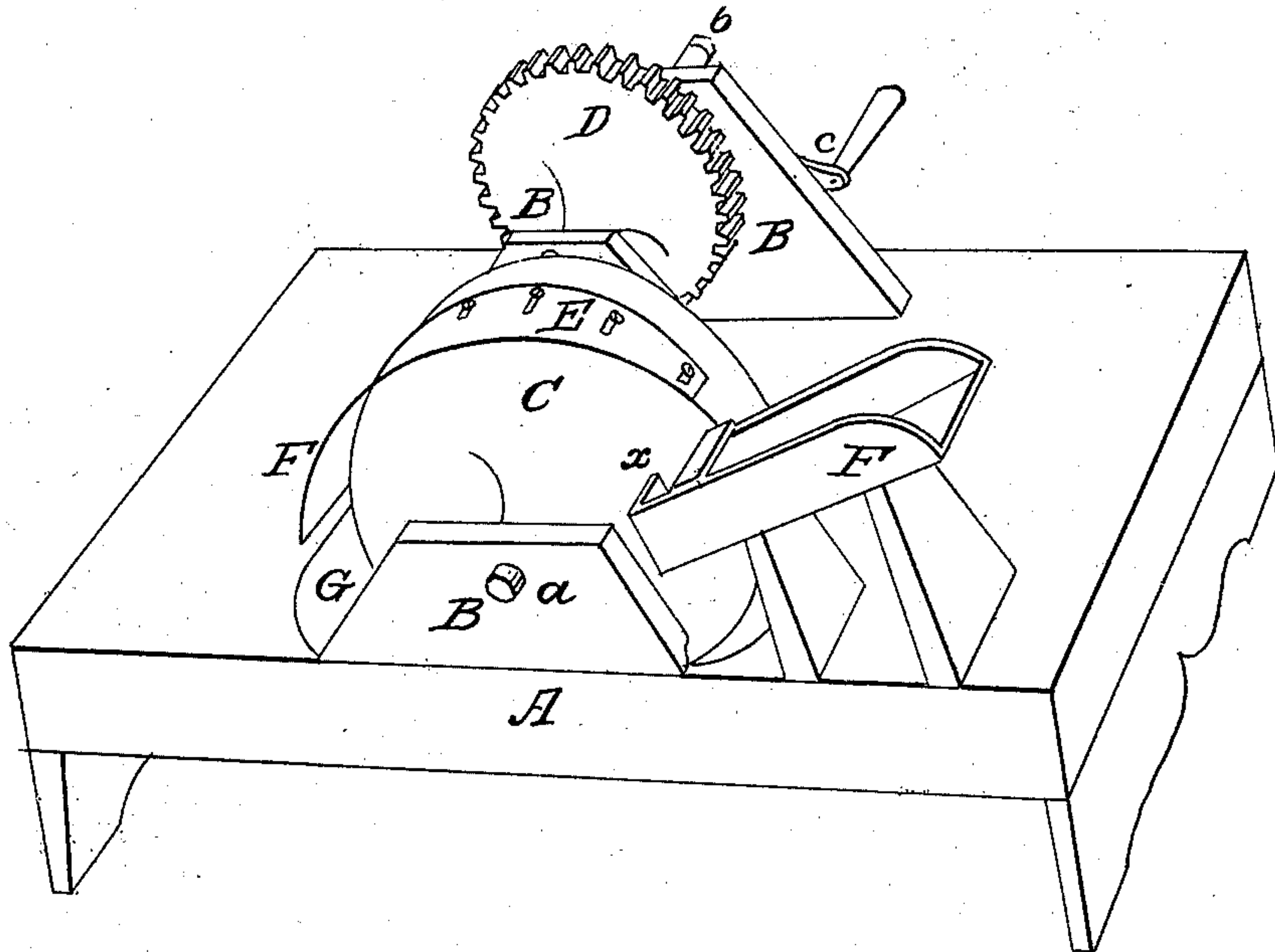


T. F. WINGO.

Straw Cutter.

No. 8,058.

Patented April 22, 1851.



UNITED STATES PATENT OFFICE.

T. F. WINGO, OF McLEMORESVILLE, TENNESSEE.

STRAW-CUTTER.

Specification of Letters Patent No. 8,058, dated April 22, 1851.

To all whom it may concern:

Be it known that I, TAZWELL F. WINGO, of McLemoresville, in the county of Carroll and State of Tennessee, have invented
5 a new and useful Improvement in Straw-Cutters; and I do hereby declare the following to be a true and exact description of the same, reference being had to the accompanying drawing, making part of the same.
10 On any suitable platform or frame A, I place bolsters or bearings B, B, B, through two of which the shaft *a*, passes on which is placed the cutter wheel C, and a small spur-wheel (not represented) which meshes into,
15 and is driven by the cog-wheel D, which is hung on the shaft *b*, which also has its bearings in two of the bolsters B, B, before referred to, and sufficiently high above the shaft *a*, to allow the cog-wheel D, and the
20 spur-wheel below it to mesh into each other. The cog wheel D, is driven by a crank *c*, or by a belt, pulley, or any other known device, which gives motion through the spur-wheel to the cutter wheel C. On the cutter
25 wheel C, I arrange one or more saw-blade shaped cutters, (one only being shown) which are secured to the periphery of the cutter wheel C, by screws or otherwise and project over the face of the cutter-
30 wheel, and forming such an angle with it as will cause it to cut entirely through the body of the straw or other material to be cut. The straw is fed to the cutters through the straw box F, which is made to incline
35 toward the cutters, so that the straw will slide down with its own weight as each cut is made, until brought up against the gage-board *x*, which holds it until again cut by the revolving of the cutter E; or, the straw
40 may be fed in by other well known devices. This gage-board *x*, may be made adjustable by making it slide against the side of the straw-box and securing it by a set-screw working through a slot in the gage-board.
45 The cutters may be slotted so as to adjust them by means of the screws by which

they are fastened to the cutter-wheel C, so as to allow for wearing by use or in grinding their edges.

The cutters are formed of straight pieces 50 of thin steel and are drawn down to the periphery of the wheel and fastened as described before. When it becomes necessary to sharpen them, they are unscrewed, and they immediately assume their original 55 shape, and are ground more easily than a curved blade.

The pointed or small end of the cutter enters the straw first, and as it passes through, the oblique shape of the knife cuts 60 gradually through the entire body of the straw, giving it a drawing cut, thereby much facilitating the operation.

The projection of the cutter E, over the face of the cutter wheel C, catches as it 65 passes around the straw cut off each portion of the blade holding its quantity of straw which it has cut and carries it to a point directly opposite to where it is cut, and deposits it through the hole G, cut through 70 the platform or frame A, entirely clear of the uncut material.

Having thus fully described my invention, what I claim therein as new and desire to secure by Letters Patent, is— 75

The manner herein described of arranging one or more cutters on the periphery of a vertical wheel at such angle with and so extending over, the face of said wheel, as will give a "drawing cut" through the 80 straw or other material to be cut, and at the same time catch, and carry the material as it falls, to the opposite side of the wheel from where it is cut, thus removing the cut material out of the way of the feeding box 85 and uncut material as fully set forth and shown.

T. F. WINGO.

Witnesses:

W. H. GODDARD,
A. B. STOUGHTON.