No Printed Specification Available

9374X

J. Everet.

Straw Cutter.

Patented Feb. 10, 1836.

Fig: 3.

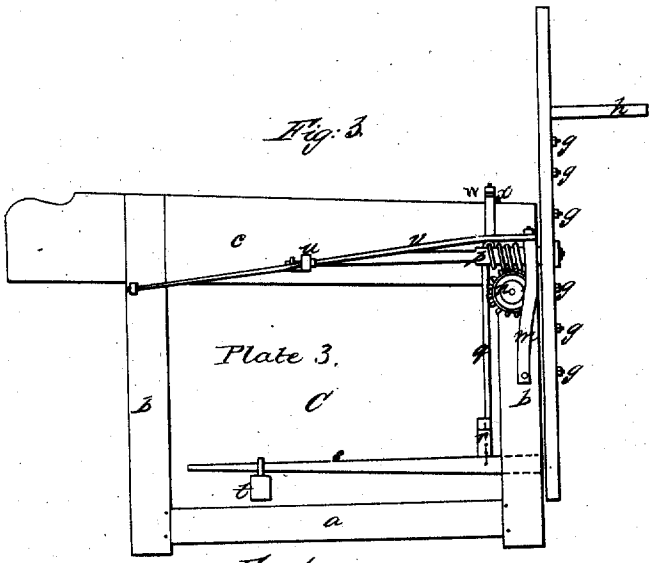


Fig: 1.

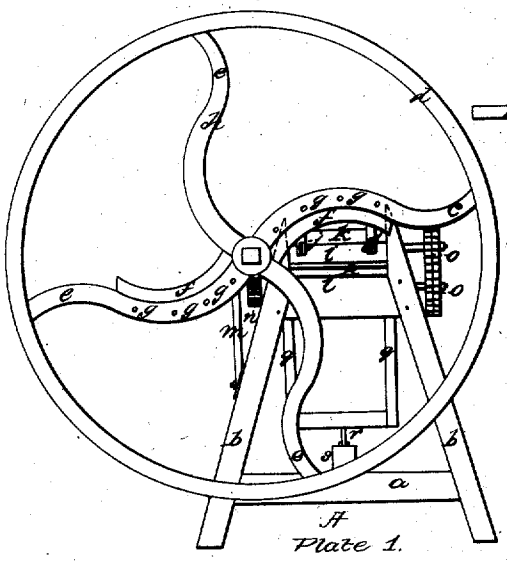
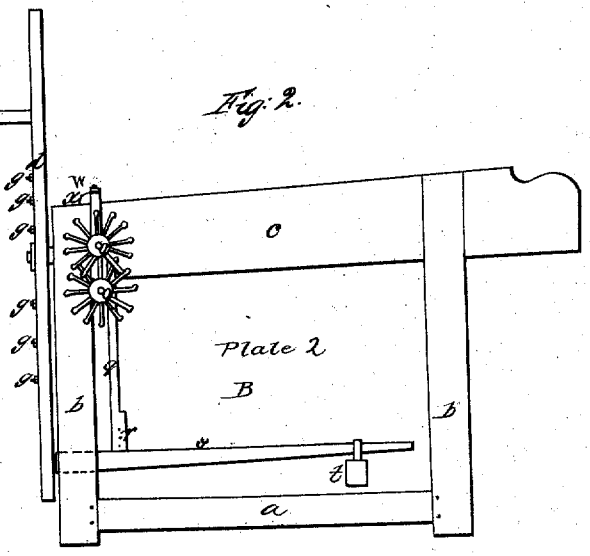


Fig: 2.



Feb. 10. 1836 9374X 229.

Joseph Gorsed, an Alien residing in Utica N.Y. U.S.

date Feb. 10. 1836

Letters Patent, Issued & Recorded agreeably

The schedule referred to in these Letters Patent and making part of the same, containing a description in the words of the said Joseph Gorsed himself of his improvement in the Machine for cutting straw and other substances.

To all to whom these presents shall come; Be it known that I, Joseph Gorsed, an alien residing in the city of Utica in the County of Oneida and State of New York, have invented a new and useful improvement in a rotary straw cutting Machine and that the following is a full and exact description of the construction and operation of the said Machine as invented or improved by me; The Machine have a vertical and revolving motion and may be propelled by manual, horse, water or other power and with the ease by which it may be used and put into operation, has a decided advantage over many other straw cutters known to the said Gorsed. The plates hereto annexed I. B. 3. and the lettering of the same together with the specification of the Machine given below, will particularly set forth and describe the different parts of the Machine, the distinct operation of each part and the effect produced by combining the whole when put to use to wit Plate No. 1. letter A. represents the right back view of the frame, fly wheel, knives, finger wheels worm wheel and press when the Machine is in the operation of cutting. Plate No. 2 letter B. represents the right side view of the frame, fly wheel, finger wheels and press. Plate No. 3. letter C. represents the right left side view of the frame, fly wheel worm wheel, worm spindle and press. Plate No. 4 letter

Letter A. b.b. represents the legs of the frame. a. the cross ledge connecting and supporting the two legs b.b. c. represents the face of the machine into and supporting the legs b.b. at top. d. the rim of the fly wheel e.e.e. the arms of the fly wheel of the same made form g.g.g.g.g.g. the bolts connecting the knives to the arms of the fly wheel as will more plainly appear in plates Nos 3.4.3. f. f. represent the knives of concave edges bolted on to the arms of the fly wheel e e which may be increased to six knives or reduced to one knife. h. represents the handle attached to the fly wheel for the purpose of propelling the machine by manual power as will plainly appear by plates Nos 2.3. i.j. k.k. represent two fluted rollers for the purpose of drawing the straw forward on the Journals of which are attached finger wheels l.l. as will more plainly appear in plate No 3.0.0. which are propelled by worm wheel 77. as will plainly appear in plate No 3.5.5. represent the top part of the frame. which presses the straw after it leaves the rollers. the unshaded part Letter K represents the space where the straw passes through to be cut by the knives.

99. represent the lower part of the feed frame in supporting the top roller k, which rises and falls to receive and press the straw of any thickness within the description of the finger wheels, by means of levers S and weight T as will plainly appear in plates Nos 3.4.3. V. represents the manner of connecting the lower part of the press frame with the frame S. M. represents the bonnet of the casing of the worm shuttle to the fly wheel d. Plate No 2 Letter B. b.b. represent the legs of the right side of the frame. a. represents the right side ledge connecting and supporting the legs of the frame. c represents the right side of the box in which the straw is placed similar to the box of the

the common draw cutter. d represents the upright edge of the fly wheel. g.g.g.g.g.g. represent the bolts fastening the knives to the arms cc. as described in plate No. 1. h represents the handle by which the fly wheel is propelled by manual power. oo. represent the double finger wheels which may rise and fall, from the centre, from one inch to a foot if required and till mark perfectly even with the journals of which are placed the rollers bb. as described in plate No. 1 which rollers will rise and fall to admit the cane or any other fodder of any thickness or position the description of the finger wheels, the top roller being pressed by the levers, and weight 3. attached by the brass part of the press frame g.g.V. w represents the screw nut to support the brace x. Plate No. 3. letter C. represents an upright left view of the machine. bb. a l. g.g.g.g.g. d. h. s. t. g.o. represent the same as described in plate No. 1. E. represents the worm and spindle working into the cogs of worm wheel bb. on which is placed the fly wheel d which feeds the rollers, knives and all in motion. u represents the centre screw to the spindle E by which the knives may be drawn closer to and regulated with the face of the machine. x. represents a brace supporting the coupling of the spindle E and the centre screw u. v. the screw nut to support the brace x. on the coupling for the journal of spindle E.

The petitioner claims as exclusive right to the invention of the finger wheels; the rising and falling of the rollers, the compression produced by the levers 3. weight 4, the concavity of the knives, edges the plan of the face of the machine through which the straw is drawn; the centre screw on the worm and spindle as described.

Witnessed
Emanuel A. Codrington
Nathan Parke

Joseph Everard

(1822 May)

Enrolled 1824