W. MITCHELL.

STRAW CUTTER.

Patented Nov. 19, 1833.
To all to whom these presents shall come: Be it known that William Mitchell, of Andrew District, in the State of South Carolina, have invented a new and useful improvement in the art of arrow cutting, and that the following is a full and exact description of the construction and operation of said machine as invented by me,

1st. A frame five feet long by three feet broad and two and a half feet high from the floor to the upper surface. All the timbers of which it shall be four inches square except the four side rails (see model No. 343) which should be six inches by four.

2nd. A waist of said machine three feet in diameter, with a cylinder half as large as the waist in length, extending from one of the side rails of the frame to the other and turning on the same to the end of which is attached the cranks handle and have the other end of the cylinder but within the frame is in a pulley, by adding a handle to which a horse power may be applied connecting the machine at the same time to other machines. By means of the crank, horse power may be dispensed with and the hand alone used. The arms for the shaft must be four in number, five inches by two, and running out the cylinder before mentioned, the size of which shall be four inches square. The rim of the pulley for the wheel must be three inches square, with a small bend of rings iron around it, if it is made of wood. To the side of the shaft and the pulley are fastened four knives or blades each running from the rim of the pull to the arms at equal distances, one end of the knife to be fastened to the arm by a staple and the thin and fastened to the rim by a screw. The knife
To be of the common cutting knives, and let into the hollow of their
nips, on the back of the blade, its edge projecting a little out, one
end of the knife, extending to the outer surface of the wheel, and
the other end made so that after the form of a horn to go in
into the staple, on each

3. A Box or Hopper, eighteen inches in width and six
in depth at one end and tapering so as to make a path of six
inches and a depth of four inches at the other end, which
is to be plated with steel, against which the blades are to
act. The hopper extends in a horizontal position from
the tailing of the frame, into which it is let in by a mortise
to the wheel. The other end of the hopper opening into a top
piece or cylinder running parallel with the tailing. If
it is made of cast iron the wheel and cylinder should be
all cast together. When used by hand two persons are
required, when a horse is used one person may

[Signatures]

William Mitchell
Nathan Hughes
Samuel Crannel

(624 words)

Revised and amended above, November, month 1827.

Drawing Made