(No Model.)

O. COOLEY.

HARVESTER RAKE.

No. 272,212. Patented Feb. 13, 1883.

Fig 1

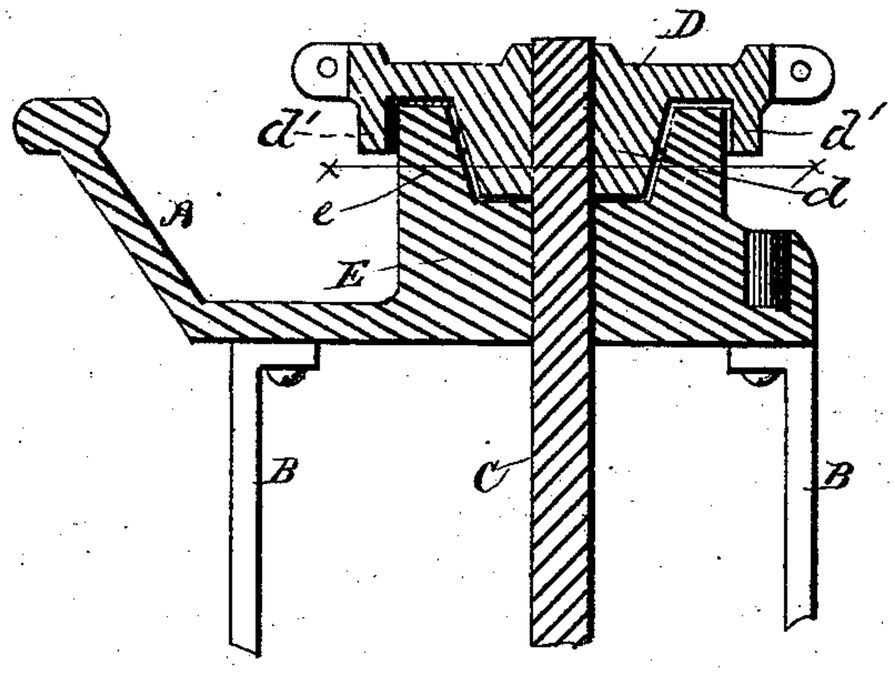


Fig. 2

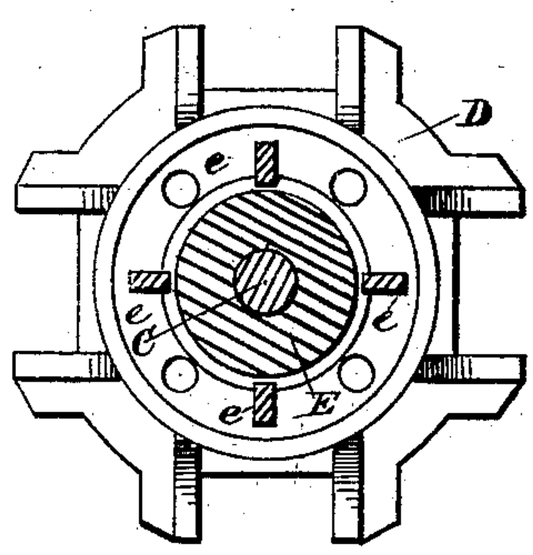


Fig. 3

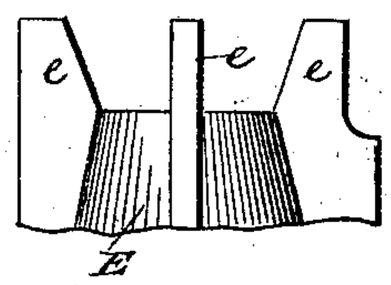
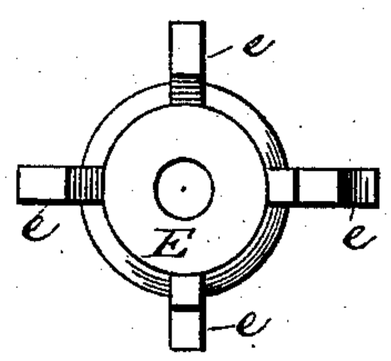


Fig. 4.



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UNITED STATES PATENT OFFICE.

ORVILLE COOLEY, OF BROCKPORT, NEW YORK, ASSIGNOR TO THE JOHNSTON HARVESTER COMPANY, OF SAME PLACE.

HARVESTER-RAKE.

SPECIFICATION forming part of Letters Patent No. 272,212, dated February 13, 1883.

Application filed December 15, 1880. (No model.) Patented in Canada April 7, 1881, No. 12,600.

To all whom it may concern:

Be it known that I, ORVILLE COOLEY, of Brockport, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Harvester-Rakes; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical sectional view of a harvester-rake containing my improvements. Fig. 2 is a sectional view taken on the line *x x* of Fig. 1. Fig. 3 is an elevation of the cam-hub and its flanges, and Fig. 4 is a top plan view of the same.

Similar letters of reference in the several figures denote the same parts.

My invention has for its object to prevent the grain which is carried up by and falls from the rake-arms of a harvester-rake from winding about the revolving rake-head and cam and interfering with the operation of the rake; and it consists in a novel construction and combination of parts for effecting this object, which I will now proceed to describe, and point out in the claim at the end of this specification.

In the drawings, A represents the cam of the harvester-rake, mounted upon and secured to the rake-standards B B in the usual manner. C is the rake-shaft, and D the rake-head, to which the several rake-arms are adapted to be articulated. The hub E of the cam is provided with one, two, three, four, or more flanges, *e*, which extend out radially and project upwardly sufficiently far to surround and inclose the hub *d* of the rake-head, as shown in Fig. 1, and prevent grain falling on the rake-head and cam from becoming wound about the hub of the rake-head and between it and the cam. To further prevent this result an annular flange, *d'*, is formed upon the rake-head and projects down outside of the flanges of the cam, as shown in Fig. 1, thus preventing the admission of grain over the top surface of the cam-flanges. The outer faces of the cam-flanges *e* are preferably beveled or inclined outwardly from top to bottom, so that the grain falling upon them will be naturally directed away from the rake-head, as will be apparent.

I am aware that prior to my invention a sprocket-wheel supported on a horizontal hub has been provided with an annular flange arranged to embrace another annular flange on said hub, so as to prevent access of straw, &c., to the bearing, and I do not claim herein such construction and relations of parts.

I claim as my invention—

In a harvester-rake, the combination, with the cam-hub having the several radially-projecting and upwardly-extending flanges, *e*, of the rake-head provided with the hub *d*, the flanges for the connection of the rake-arms, and the downwardly-projecting flange *d'*, the whole constructed and arranged substantially as described, for the purpose specified.

ORVILLE COOLEY.

Witnesses:
F. S. STEBBINS,
C. D. DEWEE, Jr.