

C. D. YOUNG.
HARVESTER-RAKE.

No. 175,634.

Patented April 4, 1876.

Fig. 1

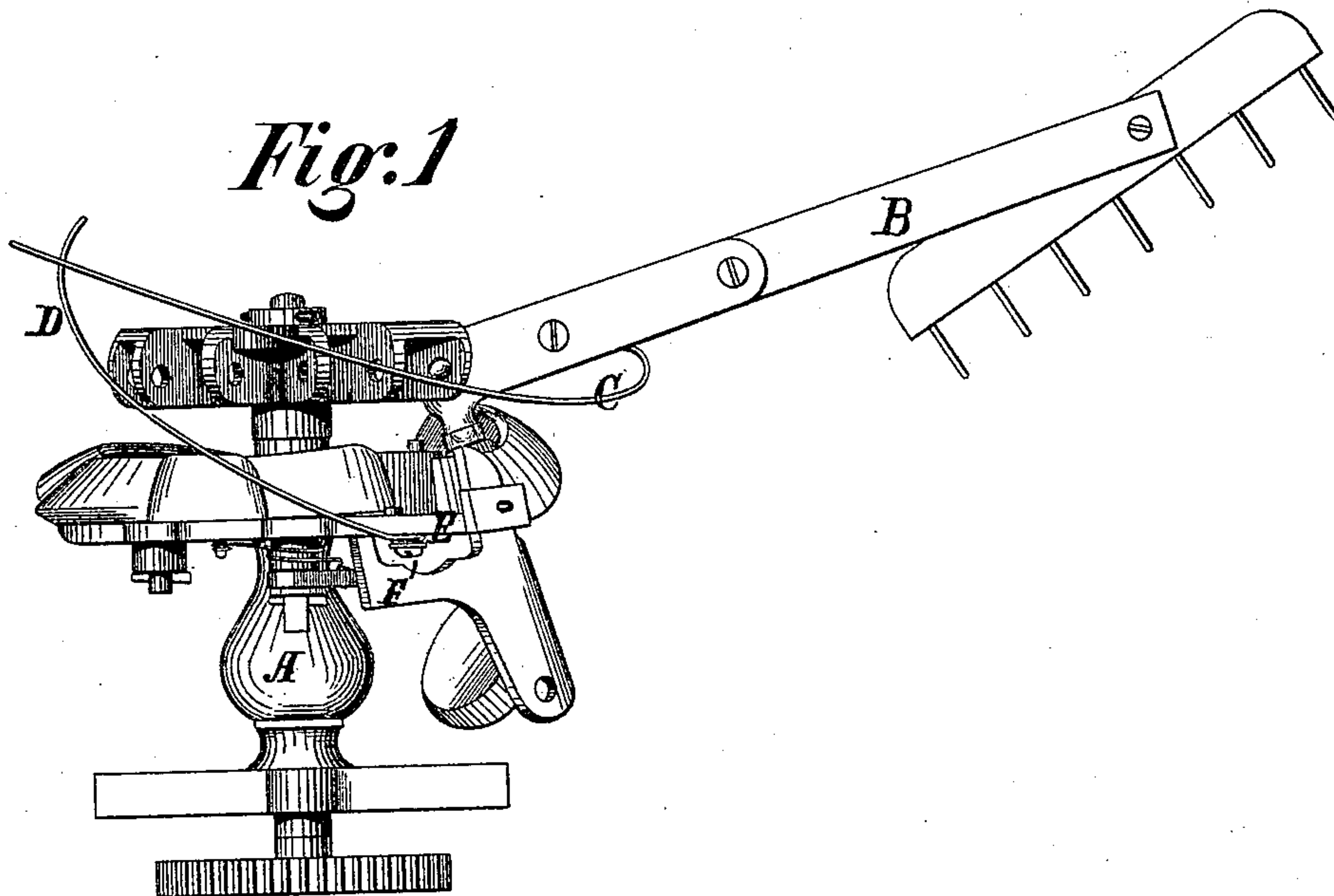
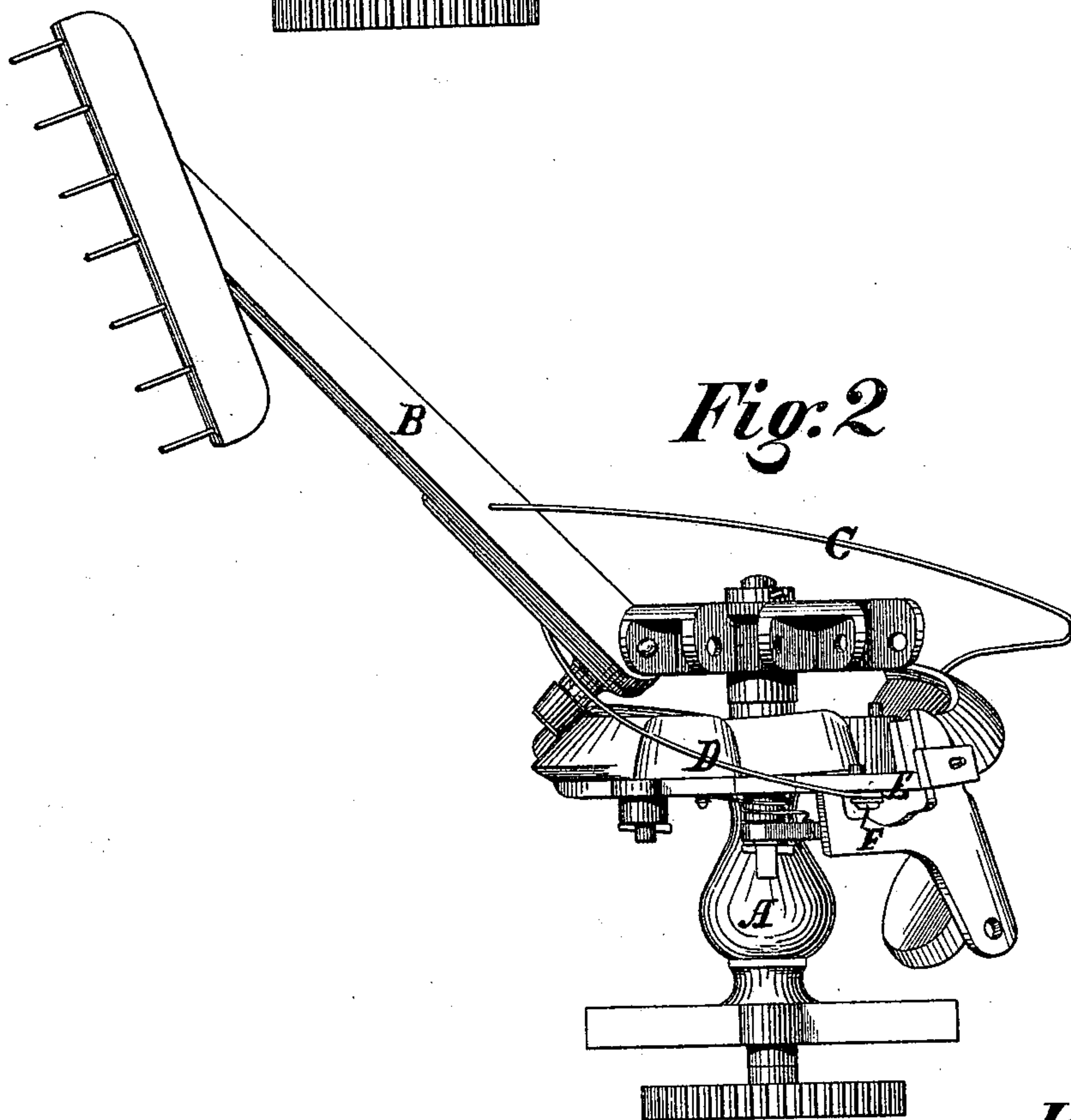


Fig. 2



Witnesses:

W. R. Wright.
J. Bonball Taylor.

Inventor.

C. D. Young,
by: W. C. Strawbridge.
Atty.

UNITED STATES PATENT OFFICE

CHARLES D. YOUNG, OF NIAGARA FALLS, NEW YORK.

IMPROVEMENT IN HARVESTER-RAKES.

Specification forming part of Letters Patent No. **175,634**, dated April 4, 1876; application filed December 31, 1875.

To all whom it may concern:

Be it known that I, CHARLES D. YOUNG, of Niagara Falls, in the county of Niagara and State of New York, have invented an Improvement in Harvester-Rakes; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

The object of my invention is to provide a device which shall at once serve to protect the mechanism of harvester-rake heads from being clogged and entangled with straw and the like, and at the same time afford and constitute an auxiliary support to the rake-arms, thereby relieving the strain upon the rake-rollers.

Figures 1 and 2 are front elevations of a harvester-rake provided with my improvements, showing a rake-arm in different successive positions.

Similar letters of reference denote corresponding parts in both the figures.

In the accompanying drawings, B represents one of the arms of a harvester-rake, A, which rake is of an ordinary and well-known construction, and will not, therefore, be further described. C and D represent my improved grain rods or shields and auxiliary rake-arm supports. These grain rods or supports are formed of heavy steel wire or steel rod by bending the same into a suitable spiral shape, as shown at C and D. After having been thus bent, one end of the rod or support is rigidly fixed to the under side or outer surface of the

camway E, or to the inner divider, by means of a clamp-screw, F, or other suitable fastening. The grain-rods C and D, being thus formed and attached to the rake-head camway of a harvester, provide a continuously rising and encircling guard or protector to such rake-head and its camway, by means of which straw and like substances are pushed away from the rake-head mechanism, thus preventing a clogging or interference in its proper operations. The form and attachment of my grain-rods or auxiliary supports C and D to the rake-head camway is so arranged that as the rake-arm advances from its highest point toward the lowest point in its path, so the grain-rod rises continually toward that point. The grain-rod, therefore, rises to its greatest elevation at the point of greatest depression of the rake-arm. When the rake-arm has reached its point of greatest depression the strain upon the rake-arm rollers becomes the most intense, and consequently the arrangement of the grain-rods, as described, serves to provide a valuable auxiliary support for the rake-arms.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

Grain rods or supports constructed in a circular or spiral form on the camway of a harvester-rake, substantially as shown and described, and for the purposes specified.

C. D. YOUNG.

Witnesses:

A. AUGS. PORTER,
CHAS. K. ROBINSON.