

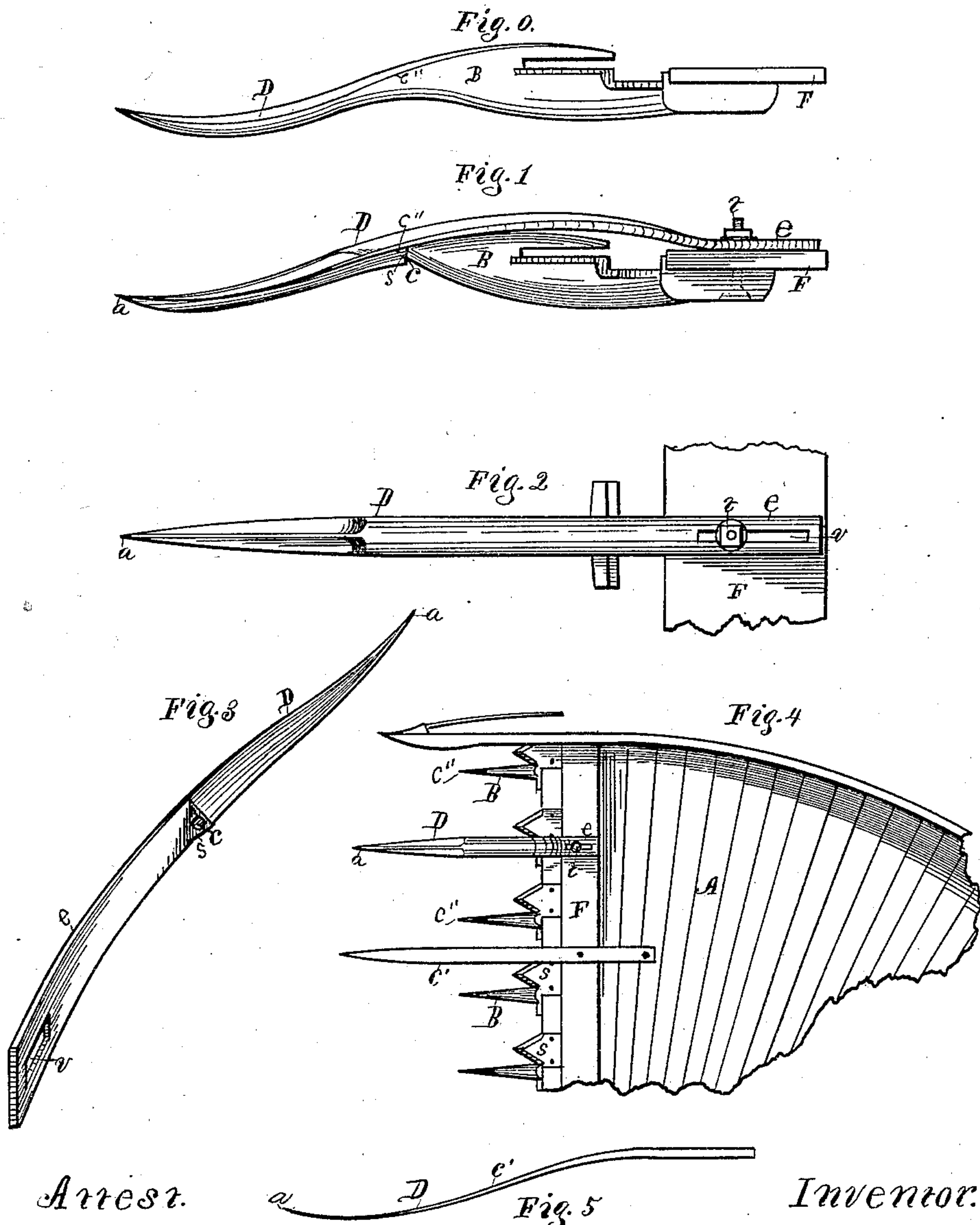
(No Model.)

H. E. TRUMBLE & F. A. KETCHUM.

EXTENSION GUARD FOR REAPERS.

No. 256,933.

Patented Apr. 25, 1882.



Attest.

John C. Perkins

Eugene S. West

Fig. 5

Inventor.

Henry E. Trumble & Frederick Ketchum

By Lucius C. West

Att'y-

UNITED STATES PATENT OFFICE.

HENRY E. TRUMBLE, OF KALAMAZOO, AND FREDERICK A. KETCHUM, OF
THREE RIVERS, ASSIGNORS OF ONE-THIRD TO FREDERICK HOTOP, OF
KALAMAZOO, MICHIGAN.

EXTENSION-GUARD FOR REAPERS.

SPECIFICATION forming part of Letters Patent No. 256,933, dated April 25, 1882.

Application filed December 19, 1881. (No model.)

To all whom it may concern:

Be it known that we, HENRY E. TRUMBLE and FREDERICK A. KETCHUM, citizens of the United States, residing at Kalamazoo and
5 Three Rivers, counties of Kalamazoo and St. Joseph, State of Michigan, respectively, have invented a new and useful Extension-Guard for Reapers, of which the following is a description.

10 Our invention has for its object a construction relating to the sickle guards and table of a grain-reaper, whereby lodged grain is raised or straightened up in a condition to be cut by the sickle. We effect our object either by con-
15 necting a detachable finger of peculiar form with the common guard now in use, which constitutes an extension to the guard, by constructing the extension and guard proper in-
20 tegral with each other, or by equivalent methods, one of which is described in the detailed description.

In the drawings forming a part of this specification, Figure 0 is a side elevation of a guard and extension formed integral with each other;
25 Fig. 1, the detachable extension connected with a guard; Fig. 2, a top view of same; Fig. 3, the detachable extension in perspective, showing under side; Fig. 4, a broken portion of sickle bar and table, and Fig. 5 a side view of an equiv-
30 alent device.

A is the sickle-bar table; F, plate to which the guards B are secured. The function of this common reaper-guard, B, is to coact with the sickle-blades in forming a shear to cut the
35 grain, and also to guard the blades from contact with stones and other obstructions; but by means of our improvement lodged grain may be raised up and cut without changing the location and angle of the sickle-table A.

40 We construct the detachable guard-extension with parts *e* and D. The former is adapted to fit over guard B, where it is held secure

by the guard-bolt *t*, and the latter, D, is made thicker and has a shoulder at *s*, in which is formed a hole or mortise, *c*, in which hole the
45 point of the guard is located, to assist in holding the extension device secure. This portion D is extended, with an outward, downward, and slightly upward curvature, terminating in a tapered point at *a*, said point being located
50 well below the original plane of point *c'* of the guard proper, B. The end of portion *e* is slotted at *v*, in order to conform the device to the varying point of location of the guard-bolt *t* in relation to the distance between said bolt
55 and point *c'* in different machines.

c' is a finger made from a strip of metal having the same general configuration of the extension D in the other devices shown. It may be bolted to table A between the guards B, as
60 in Fig. 4, and by it the lodged grain raised; but we prefer the construction shown in Fig. 1, deeming it the most practical.

In operation the point *a*, being located very near the ground, runs under the lodged grain,
65 raising it, as before specified, and as end *a* is slightly curved upward its contact with sods and little mounds of soft earth does not interfere with the operation of the reaper.

What we claim as new is—

70 In a reaper, the combination, with a sickle-guard, of an extension guard or finger curving downward and outward from said guard, and having the shoulder with the mortise in which the point of the sickle-guard is located, and
75 the elongated slot adapting it to the varying types of reaper-guards, all substantially as set forth.

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FREDERICK A. KETCHUM.

Witnesses:

FREDERICK HOTOP,
G. W. O'HARRA.