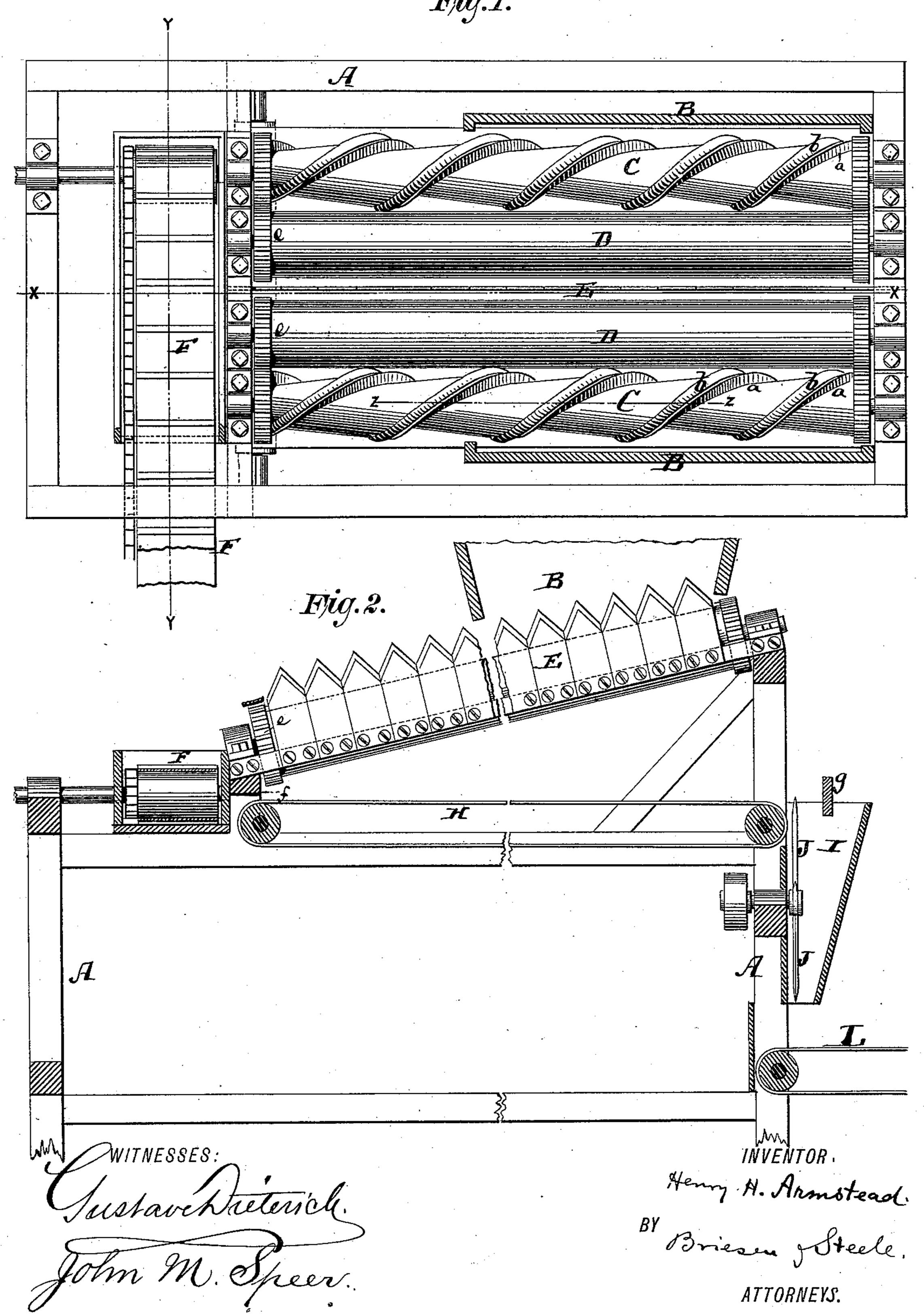
## H. H. ARMSTEAD.

CORN HUSKING MACHINE.

No. 381,748.

Patented Apr. 24, 1888.



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Fig.3. Patented Apr. 24, 1888.

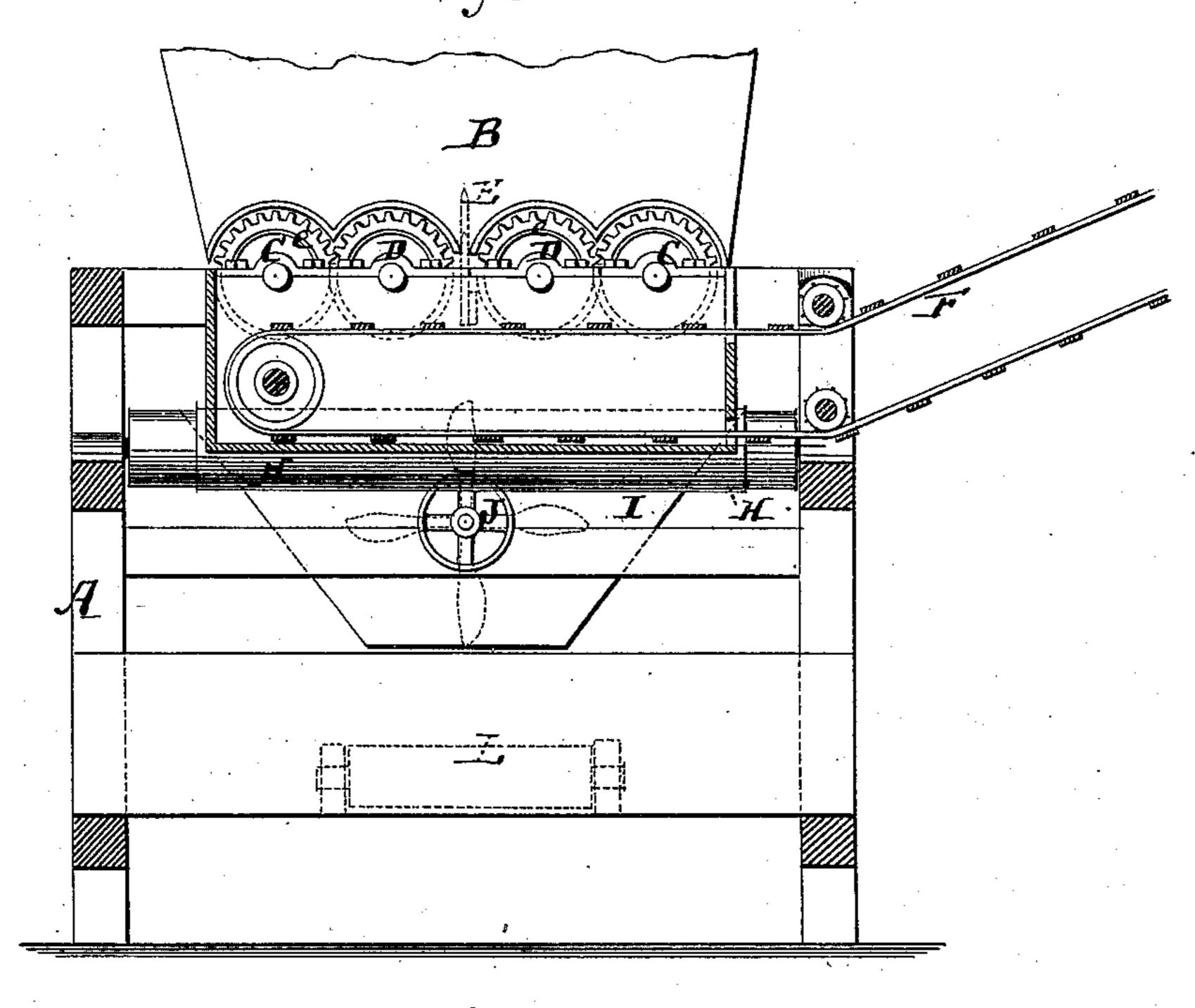
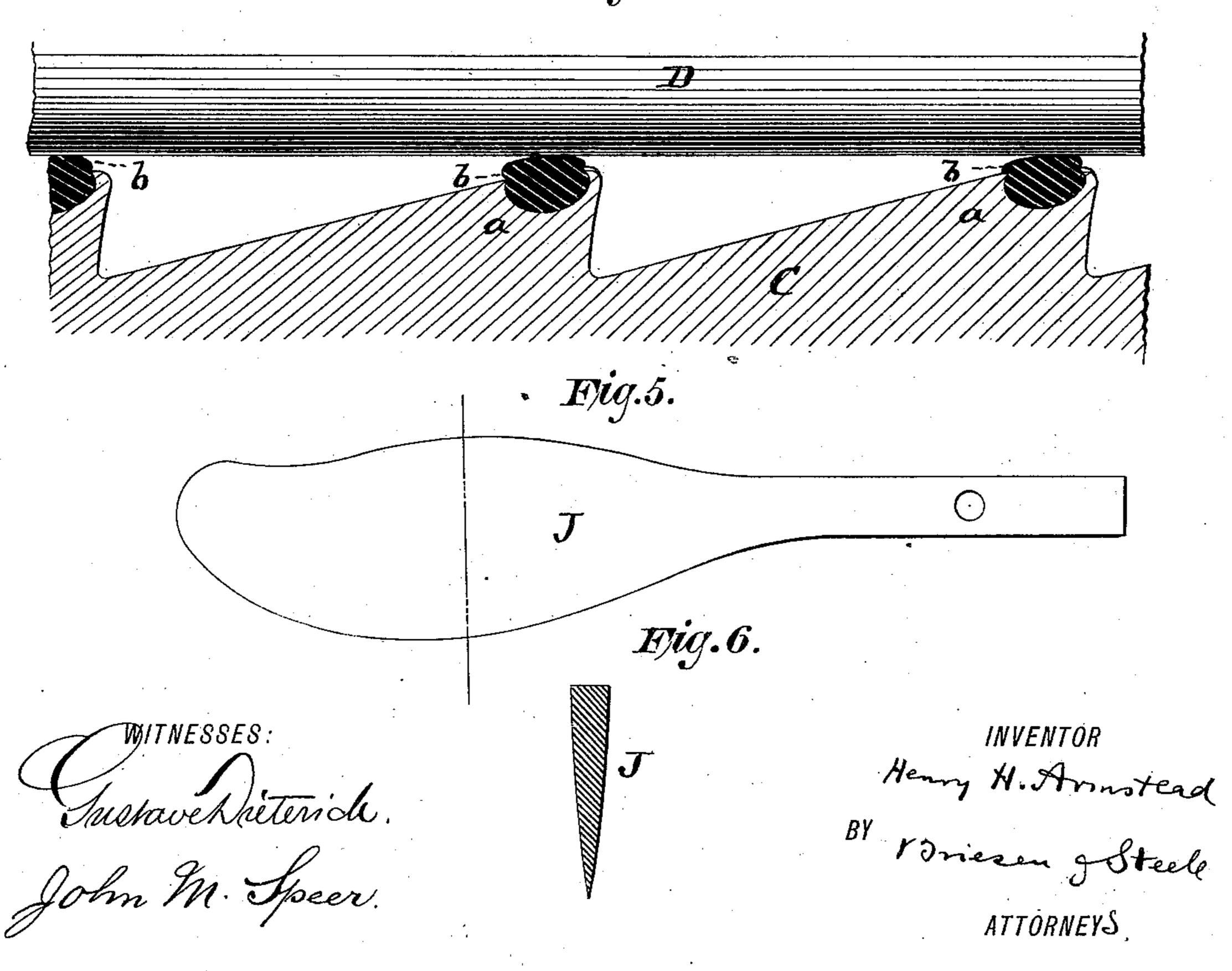


Fig. 4.



## United States Patent Office.

HENRY H. ARMSTEAD, OF BROOKLYN, NEW YORK.

## CORN-HUSKING MACHINE.

SPECIFICATION forming part of Letters Patent No. 381,748, dated April 24, 1888.

Application filed September 24, 1886. Serial No. 214,404. (No model.)

To all whom it may concern:

Be it known that I, HENRY H. ARMSTEAD, a resident of Brooklyn, in the county of Kings and State of New York, have invented an Im-5 proved Corn Husking Machine, of which the following is a full, clear, and exact description, reference being made to the accompany-

ing drawings, in which—

Figure 1 is a plan or top view, partly in ro section, of my improved corn-husking machine. Fig. 2 is a vertical longitudinal section of the same on the line x x, Fig. 1. Fig. 3 is a vertical cross-section on the line y y, Fig. 1. Fig. 4 is a detail longitudinal view, re partly in section, of part of a pair of huskingrollers. Fig. 5 is a detail face view of one of the knives for cutting the stalks and husks. Fig. 6 is a cross-section of said knife.

This invention relates to a new machine for 20 separating the ears of corn from the husks and stalks; and it consists, first, in a new construction of husking-roller, the same consisting of a roller having a spiral projecting thread around its circumference and a spiral elastic 25 thread carried on the edge of said spiral projecting thread for engaging with an adjoining

substantially-cylindrical roller.

The invention also consists in the combination of two sets of husking rollers with an in-30 termediate knife of peculiar kind for cutting the stalks that may lie crosswise in the machine in two, so that each set of husking-rollers may proceed to perform its work upon one-half of such a stalk.

The invention further consists in details of construction and combination of parts, as

hereinafter more fully described.

In the drawings, the letter A represents the frame of my machine, which frame supports a 40 hopper, B, through which the unhusked ears of corn, together with the stalks, are introduced. Beneath this hopper are hung in the frame A two pairs of rollers, C D C D, the axes of which are parallel with one another. 45 Between the two pairs of these rollers is carried in the frame A a knife, E, which knife is composed of series of V-shaped cutting-blades, as is more clearly shown in Fig. 2 of the drawings. Each roller C is of the tapering form 50 indicated and has a projecting spiral thread,

a. The spiral a may be an integral part of the roller C, or may be made separate and secured thereto. In the outer edge of the spiral a is formed a spiral recess, into which recess is pressed an elastic spiral thread, b. This elas- 55 tic spiral thread b is more clearly shown in Fig. 4 of the drawings. The elastic outer thread is a spiral band of india-rubber or other elastic substance, and is held by frictional contact in the recess heretofore described. It is 60 in contact with the outer circumference of the substantially cylindrical roller D. The rollers C and D of each pair are geared together by toothed wheels e, to which rotary motion is imparted by suitable mechanism. (Not shown.) 65 It will be seen from Fig. 2 of the drawings that the rollers C D are inclined, being highest underneath the hopper B and lowest at a distance therefrom. Their lower ends are hung in a cross-bar, f, of the frame A, near 70 which an endless band, F, is placed across the machine. This endless band has slats or other projections on its face to conveniently carry away to a suitable place of deposit whatever husked ears of corn may be delivered thereto 75 by the action of the rollers. The husks and stalks drop through beneath the pairs of rollers.

Beneath the rollers CDCD is a longitudinal endless belt, H. This belt passes over rollers to which rotary motion is imparted by 8c suitable mechanism. (Not shown.) The belt H deposits the husks, stalks, &c., into a box, I, within which revolves a rotating knife or set of knives, J. The shape of each blade of this knife is more clearly shown in Figs. 5 and 85 6. The husks and stalks, being carried by the belt H against a stationary bar g, are arrested by said bar and cut into short pieces by the revolving knife J, and these pieces then drop through the open bottom of the box I upon a 90

suitable platform or belt, L.

For further statement of the operation of the machine it only needs to be said that the unhusked ears of corn attached to the stalks are placed in the hopper B, so as to be de- 95 posited upon the rollers CD. These stalks, that fall lengthwise from the hopper, will be seized by one pair of rollers C D, which will strip the husks from the ears of corn and remove the stalks and husks from the ears by ico

the frictional contact of the spiral elastic thread b of the roller C against the surface of the roller D; but those stalks that fall crosswise from the hopper B will be grasped by 5 both sets of rollers and will be drawn downward so that their middle portions will be cut by the knife E into two parts, leaving each set of rollers CD to operate on one of the parts.

10 Whatever ears of corn have been husked by the rolls will pass upon the apron F and be carried to a suitable receptacle, while the husks and stalks will pass down between the rollers CD to the apron H. This apron con-15 veys them to the box I and to the action of the wise, as described. knife J, which cuts said husks and stalks into short pieces convenient for use as fodder or

I claim—

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the thread a, the space between the metallic threads being uncovered and free, as and for the purpose specified. 25 2. The combination of the husking-roller C, having spiral projecting thread a and spiral

roller C, having spiral projecting thread a and

spiral elastic thread b, carried on the edge of

1. In a corn-husking machine, the husking- 20

elastic thread b, which is secured in a recess in spiral a, with the contiguous roller D, as described.

3. The combination of two sets of huskingrollers, CDCD, with the intermediate knife, E, for cutting in two the stalks that fall cross-

HENRY H. ARMSTEAD.

Witnesses: for other purposes.

HENRY S. FARLEY, HARRY M. TURK.