

No. 789,987.

PATENTED MAY 16, 1905.

J. J. MARSH.  
CORN HUSKING MACHINE.  
APPLICATION FILED OCT. 8, 1904.

2 SHEETS—SHEET 1.

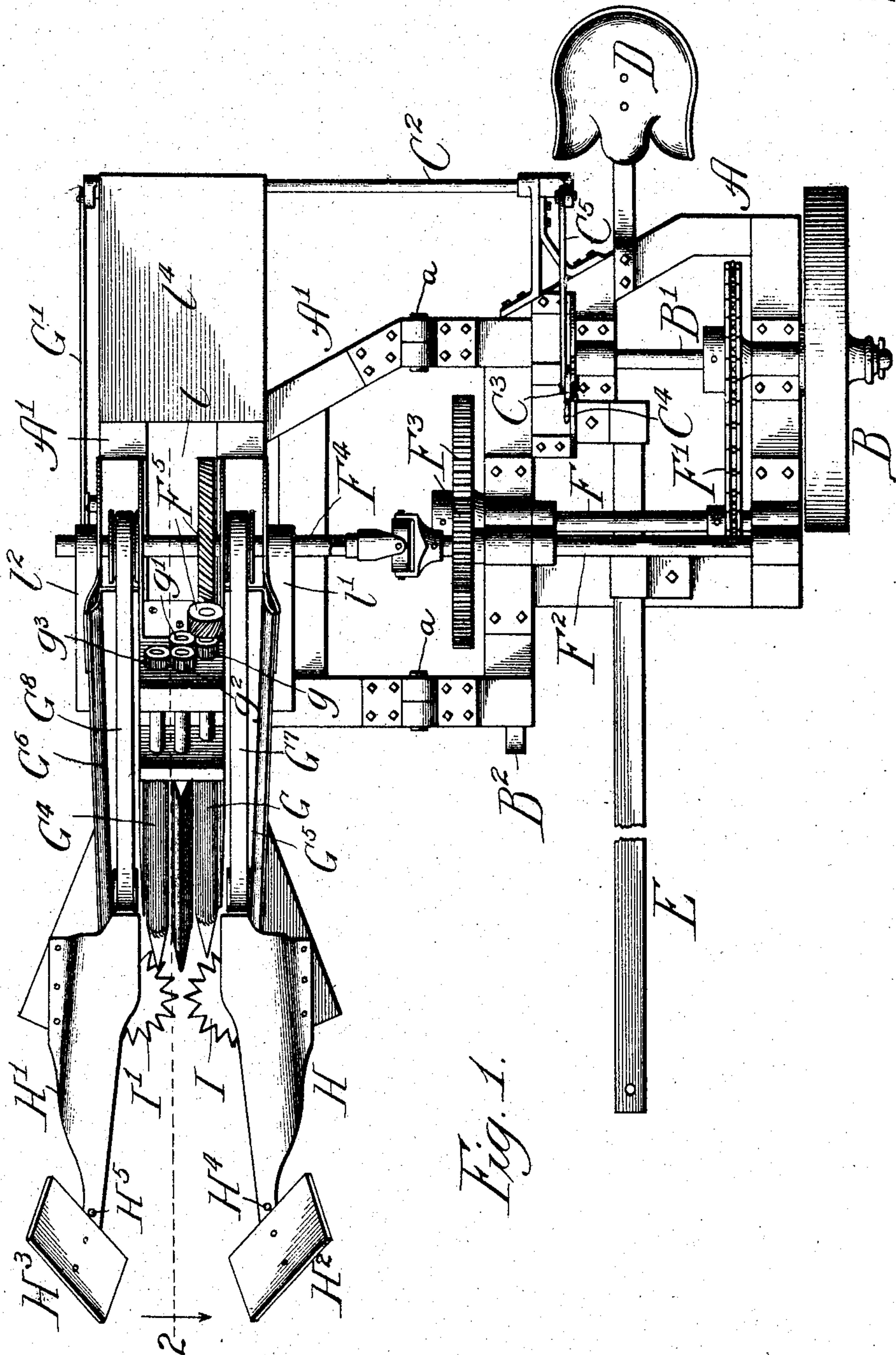


Fig. 1.

Witnesses:  
Ed. Chylak  
John Anders

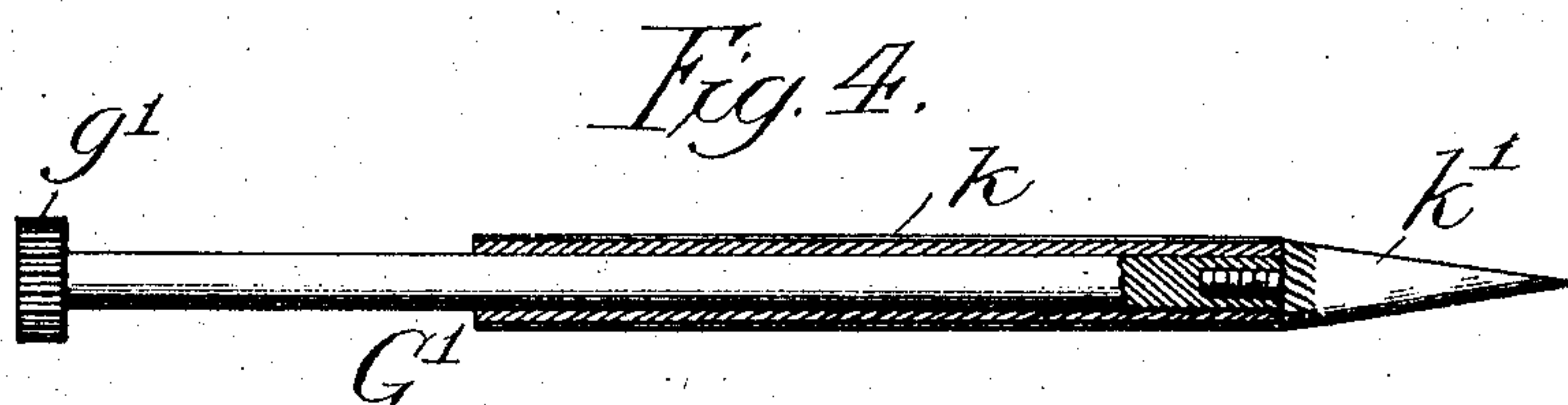
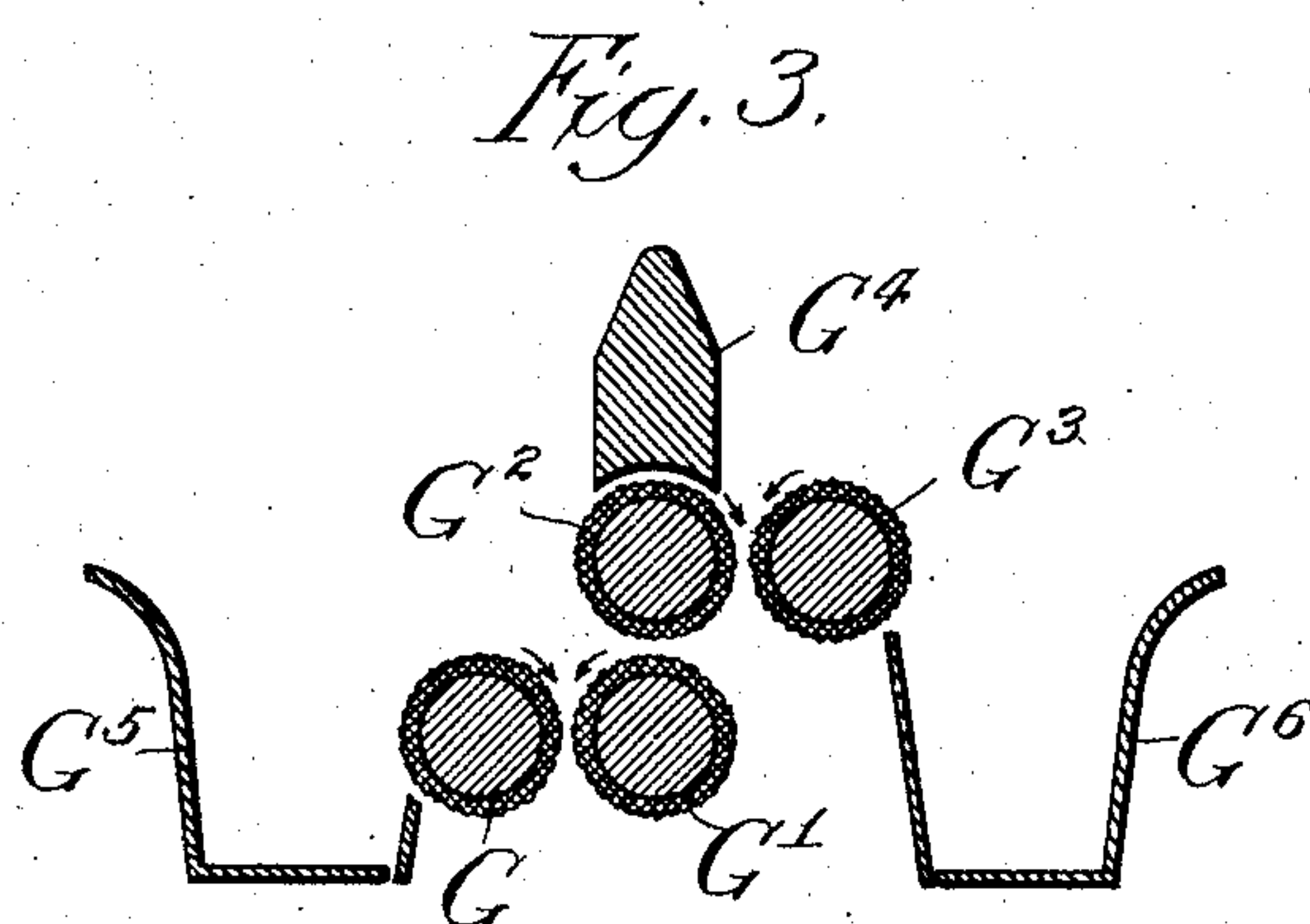
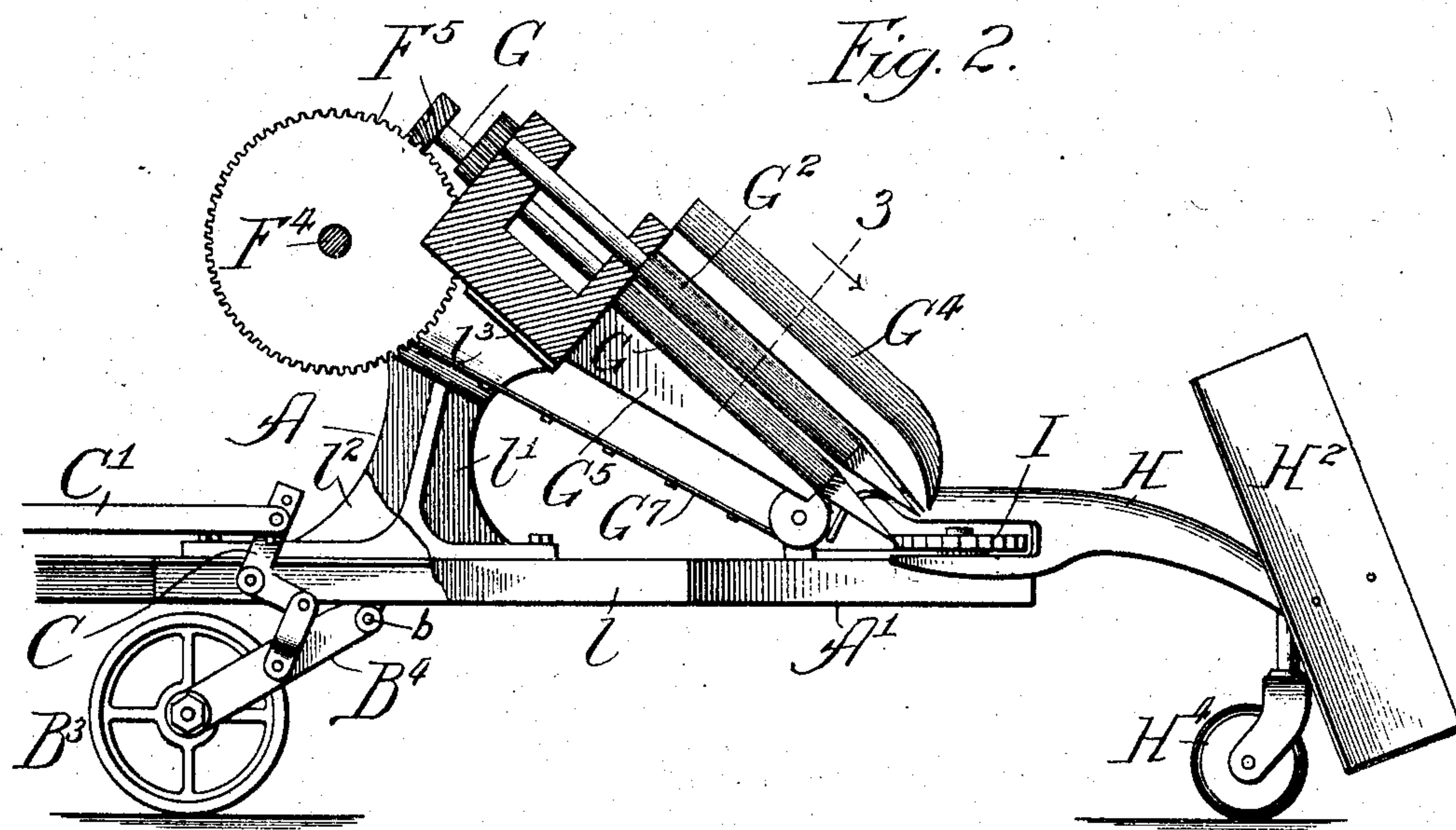
Inventor:  
John J. Marsh,  
By Dyrenforth, Dyrenforth & Lee  
Att'ys

No. 789,987.

PATENTED MAY 16, 1905.

J. J. MARSH.  
CORN HUSKING MACHINE.  
APPLICATION FILED OCT. 6, 1904.

2 SHEETS—SHEET 2.



Witnesses:  
Edw. C. Lloyd,  
John Enders.

Inventor:  
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# UNITED STATES PATENT OFFICE.

JOHN J. MARSH, OF MARSEILLES, ILLINOIS.

## CORN-HUSKING MACHINE.

SPECIFICATION forming part of Letters Patent No. 789,987, dated May 16, 1905.

Application filed October 6, 1904. Serial No. 227,376.

*To all whom it may concern:*

Be it known that I, JOHN J. MARSH, a citizen of the United States, residing at Marseilles, in the county of Lasalle and State of Illinois, have invented a new and useful Improvement in Corn-Husking Machines, of which the following is a specification.

My invention relates particularly to field corn-huskers; and my primary object is to provide a machine better adapted to field-work of the character indicated than any heretofore devised.

The invention is illustrated in its preferred embodiment in the accompanying drawings, in which—

Figure 1 represents a plan view of my improved corn-husker; Fig. 2, a vertical longitudinal section taken as indicated at line 2 of Fig. 1; Fig. 3, a transverse section taken as indicated at line 3 of Fig. 2, and Fig. 4 a broken section showing a detail of the husking-rolls employed.

A description of my preferred construction is as follows: A represents a main frame-section with which is connected at pivots *a* the husking-roll frame A'; B, the drive-wheel secured on an axle B'; B<sup>2</sup>, a caster-wheel forming part of the support for the frame-section A; B<sup>3</sup>, a wheel journaled in a fork B<sup>4</sup>, joined by a pivot *b* to the outer lateral edge portion of the frame-section A'; C, a bell-crank lever pivoted on the frame-section A' adjacent to said fork and linked thereto; C', a connecting-link joining the bell-crank lever to an arm on a rock-shaft C<sup>2</sup>, extending transversely at the rear end of the machine; C<sup>3</sup>, a hand-lever working on a segment C<sup>4</sup> and joined by a link C<sup>5</sup> to an arm on the inner end of said rock-shaft; D, a seat supported on the rear portion of the frame-section A and within convenient reach of which the hand-lever is located; E, a tongue or reach connected with the frame-section A; F, a shaft journaled on the frame-section A and having sprocket-chain connection F' with the axle B'; F<sup>2</sup>, a counter-shaft located above the shaft F and having spur-gear connection F<sup>3</sup> therewith; F<sup>4</sup>, a shaft in alinement with the shaft F<sup>2</sup> and having uni-

versal connection therewith, said shaft F<sup>4</sup> being journaled on the frame-section A'; G G', a pair of forwardly-declining husking-rolls lying in a plane substantially perpendicular to the longitudinal vertical central plane of the machine and having at their rear ends intermeshing pinions *g g'*, the roll G having its rear end prolonged and joined by worm-gear connection F<sup>5</sup> to the shaft F<sup>4</sup>; G<sup>2</sup> G<sup>3</sup>, a pair of husking-rolls lying in a plane parallel with and above the plane of the rolls G G', the roll G<sup>2</sup> lying in front of and above the roll G' and the space between the members of one pair of rolls being staggered with relation to the space between the other pair of rolls, the rear ends of the rolls G<sup>2</sup> G<sup>3</sup> being equipped with intermeshing pinions *g<sup>2</sup> g<sup>3</sup>*, the former of which meshes also with the pinion *g'*; G<sup>4</sup>, a divider shielding the roll G<sup>2</sup> and presenting a double-bevel edge to the front, the function of the divider being to divide the stalks of a row between the two pairs of rolls so that neither pair shall receive corn beyond its capacity; G<sup>5</sup> G<sup>6</sup>, inclined elevator-troughs subjacent to and flanking the outer members of the two pairs of rolls; G<sup>7</sup> G<sup>8</sup>, endless elevator-belts operated by pulleys on the shaft F<sup>4</sup>; H H', a pair of forwardly-divergent members projecting from points on the frame-section A' subjacent to the lower ends of the outer members of the pairs of husking-rolls and respectively equipped at their front ends with obliquely-set upwardly and outwardly divergent stalk-gathering boards H<sup>2</sup> H<sup>3</sup>; H<sup>4</sup> H<sup>5</sup>, casters secured to the front portions of the members H H', and I I' a pair of toothed wheels journaled so as to project into the stalk-channel of the machine and coact with the divider G<sup>4</sup> in directing stalks to the rolls.

The construction of a husking-roll is shown in detail in Fig. 4, from which it will be understood that each roll comprises a shaft incased in a tubular rubber envelop *k* and tipped with a removable metallic cone *k'*. The base ends of the cones are spirally cut, so that they will assist the better in drawing the stalks between the rolls.

The frame-section is longitudinally chan-



neled at its front portion, as shown at  $l$ , and flanking the channel are standards  $l'$   $l''$ , (the latter broken in Fig. 2,) upon which is supported a block  $l^3$ , which affords an extended bearing for the upper end of each roll. In the rear of the channel  $l$  is a platform  $l^4$ , which may serve to support a basket for receiving the husked corn.

From the foregoing description it will be understood that power is transmitted from the axle  $B'$  through the shaft  $F$ , counter-shaft  $F^2$ , and shaft  $F^4$  to the husking-rolls and elevator-belts. In operation the machine is driven with the wheels  $B$  and  $B^2$  astride one row, while the adjacent row is received by the channel having the husking-roll equipment. As the machine moves forwardly the stalks are gathered and divided by the means described, one portion of the stalks being received between the members of one pair of rolls and the other portion thereof between the other pair of rolls. As the ears of corn are husked they drop upon the elevators and are carried up over the shaft  $F^4$  and are delivered to a basket placed on the platform  $l^4$ . The rubber sleeves of the husking-rolls preferably have fluted or longitudinally-ribbed surfaces, adding to the gripping action thereof on the husks.

It is to be remarked that any suitable lateral elevator may be provided for receiving the corn from the elevators shown and delivering it to a wagon accompanying the husking-machine, or, if desired, the elevators shown may be replaced by any suitable receivers for the corn. The inclination of the husking-rolls may be varied considerably, and in some constructions it may be desirable to have the rolls assume a nearly vertical position.

A team may be hitched directly to the tongue or pole  $E$ , or the latter may be attached as a reach to the front running-gears of a wagon, to which the team may be hitched. For the latter purpose the reach is provided at its front end with a perforation for receiving the king-bolt of the wagon.

It must still be stated that whenever desired the height of the frame-section  $A'$  may be varied by operating the hand-lever  $C^3$ .

Changes in details of construction within the spirit of my invention are contemplated. Hence no undue limitation should be understood from the foregoing detailed description.

What I regard as new, and desire to secure by Letters Patent, is—

1. In a machine of the character described, the combination with a suitable frame and husking-roll-actuating means, of a plurality of pairs of husking-rolls with the spaces between the members of the several pairs of rolls lying in different longitudinal planes and a member of one pair arranged substantially

in front of the adjacent member of the adjacent pair, and means for gathering and dividing the stalks of a row, whereby the work of husking is divided between the pairs of rolls, for the purpose set forth.

2. In a machine of the character described, the combination with a suitable frame and husking-roll-actuating means, of two pairs of husking-rolls with the spaces between the members of the pairs arranged in different longitudinal planes, and a member of one pair arranged substantially in front of the adjacent member of the other pair, stalk-gathering means, and a divider located in front of the centrally-located rolls, for the purpose set forth.

3. In a machine of the character described, the combination with a suitable frame and husking-roll-actuating means, of two pairs of inclined husking-rolls presenting spaces in different longitudinal planes, one pair of rolls being in advance of the other and having one of its members substantially directly in front of a member of the other pair, intermeshing pinions on the rear ends of said rolls, gear connections for actuating one of the rolls and through the medium thereof the other rolls, an inclined divider guarding the inner member of the advance pair of rolls, and stalk-gathering devices flanking and projecting in front of the lower portions of the rolls, for the purpose set forth.

4. In a machine of the character described, the combination of a main frame-section provided with a drive-wheel, a shaft actuated from said drive-wheel, a husking-roll frame-section having pivotal connection with said first-named frame-section, a shaft journaled in said second-named frame-section having universal connection with said first-named shaft, means for adjusting the height of the husking-roll frame-section with relation to the main frame-section, and inclined husking-rolls geared to said second-named shaft, for the purpose set forth.

5. In a machine of the character described, the combination of a main frame-section equipped with a draft device and provided with a seat, a husking-roll frame-section having pivotal connection with the main frame-section, husking-rolls mounted in said second-named frame-section, stalk-gathering devices projecting in front of said rolls, a fork pivotally connected with said second-named frame-section and provided with a wheel, a bell-crank lever connected with said fork, a transverse rock-shaft at the rear of the machine linked to said bell-crank lever, and an adjusting-lever adjacent to said seat connected with said rock-shaft, for the purpose set forth.

6. In a machine of the character described, the combination with a suitable frame of two

pairs of inclined husking-rolls presenting spaces in different longitudinal planes, one pair of rolls lying in advance of the other and having a member substantially directly in front of a member of the other pair, means  
5 for gathering the stalks of a row and distributing them to the two pairs of rolls, and means

at the outer side of each pair of rolls for receiving the corn from the rolls, for the purpose set forth.

JOHN J. MARSH.

In presence of—

S. S. THOMPSON,  
TERRY SIMMONS.