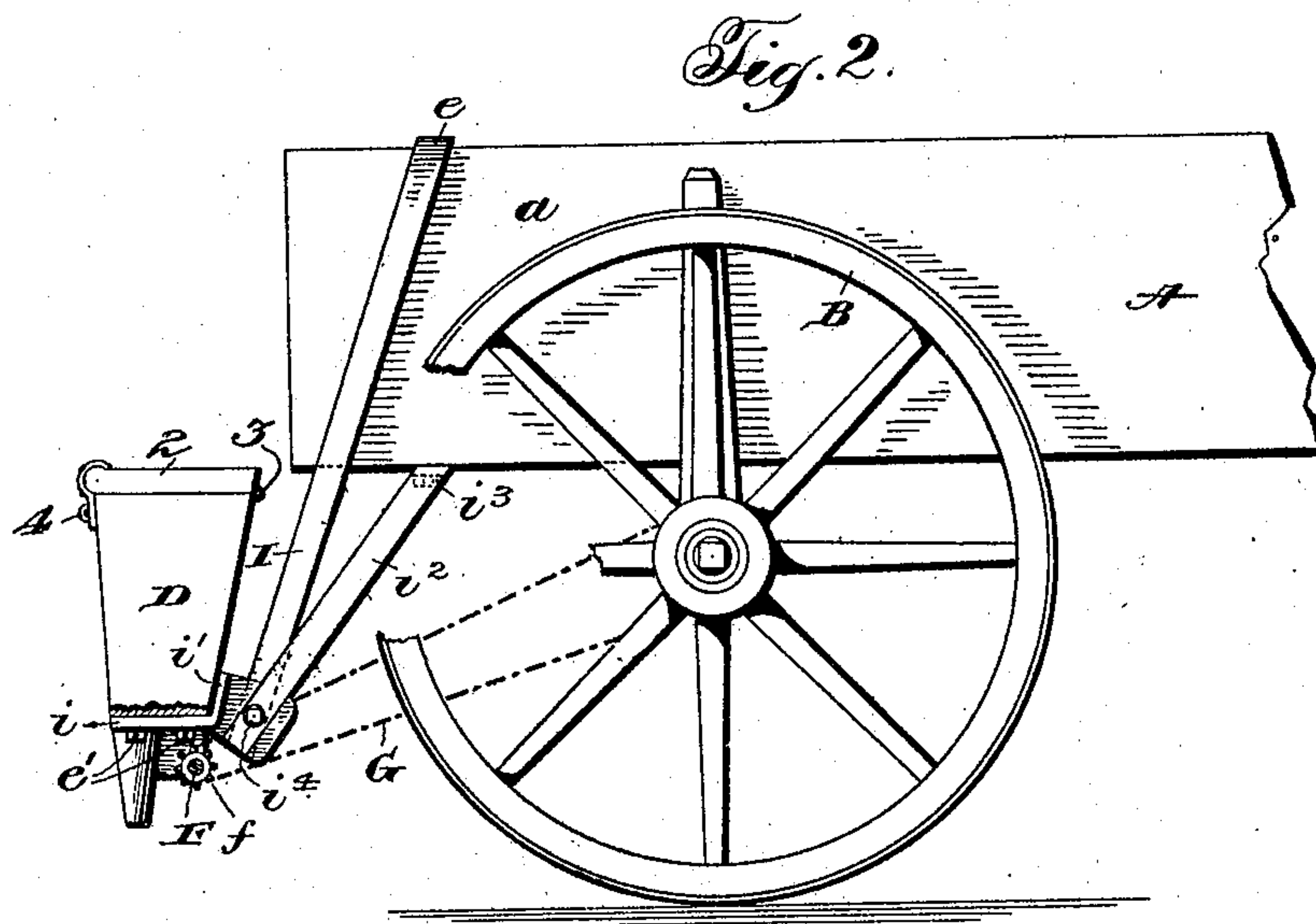
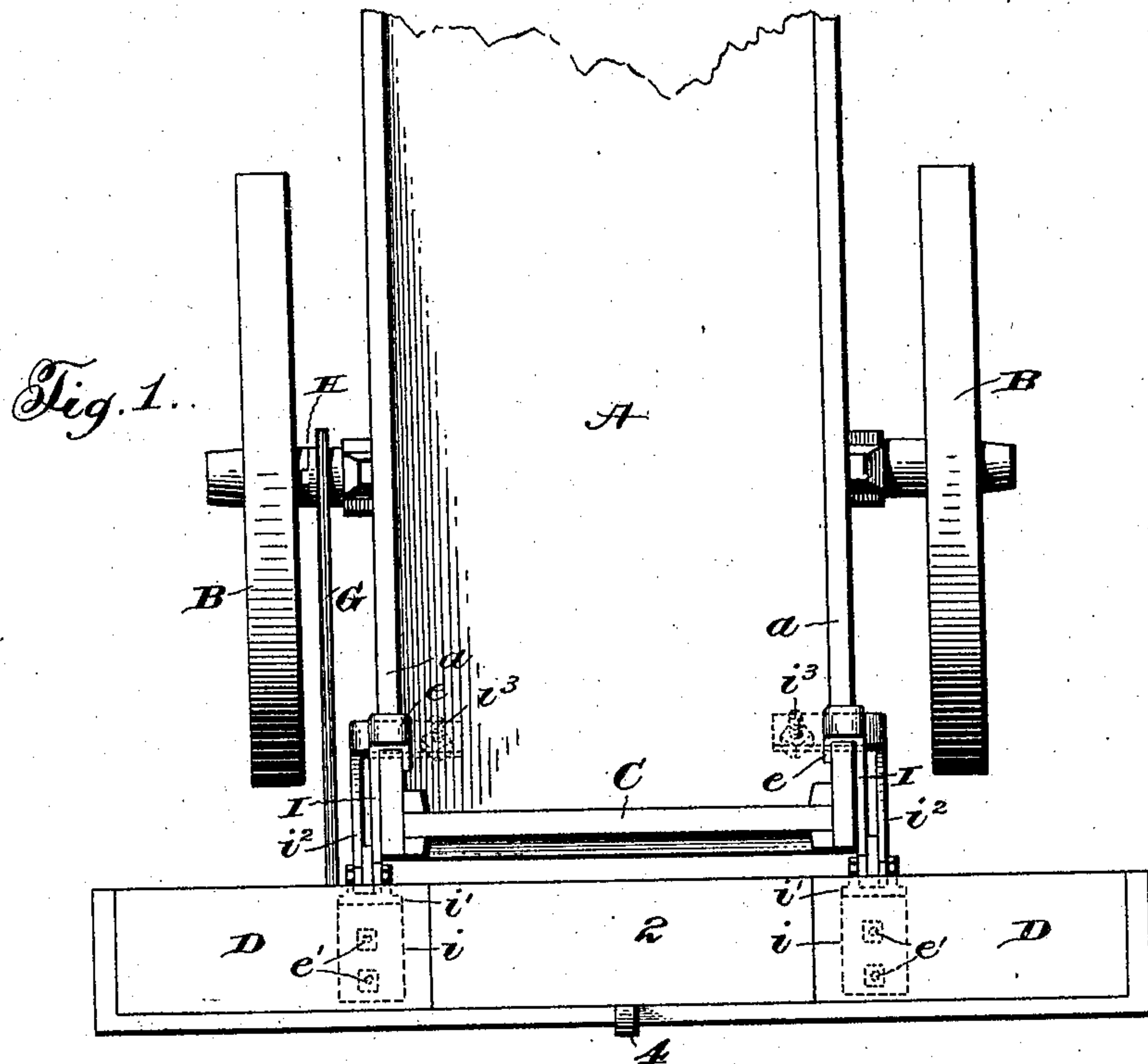


No. 824,106.

PATENTED JUNE 26, 1906.

W. FETZER.
SEEDING ATTACHMENT.
APPLICATION FILED DEC. 29, 1905.

2 SHEETS—SHEET 1.



Witnesses:
Jas E Hutchinson
J. Percy Campbell.

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2 SHEETS—SHEET 2.

Fig. 3.

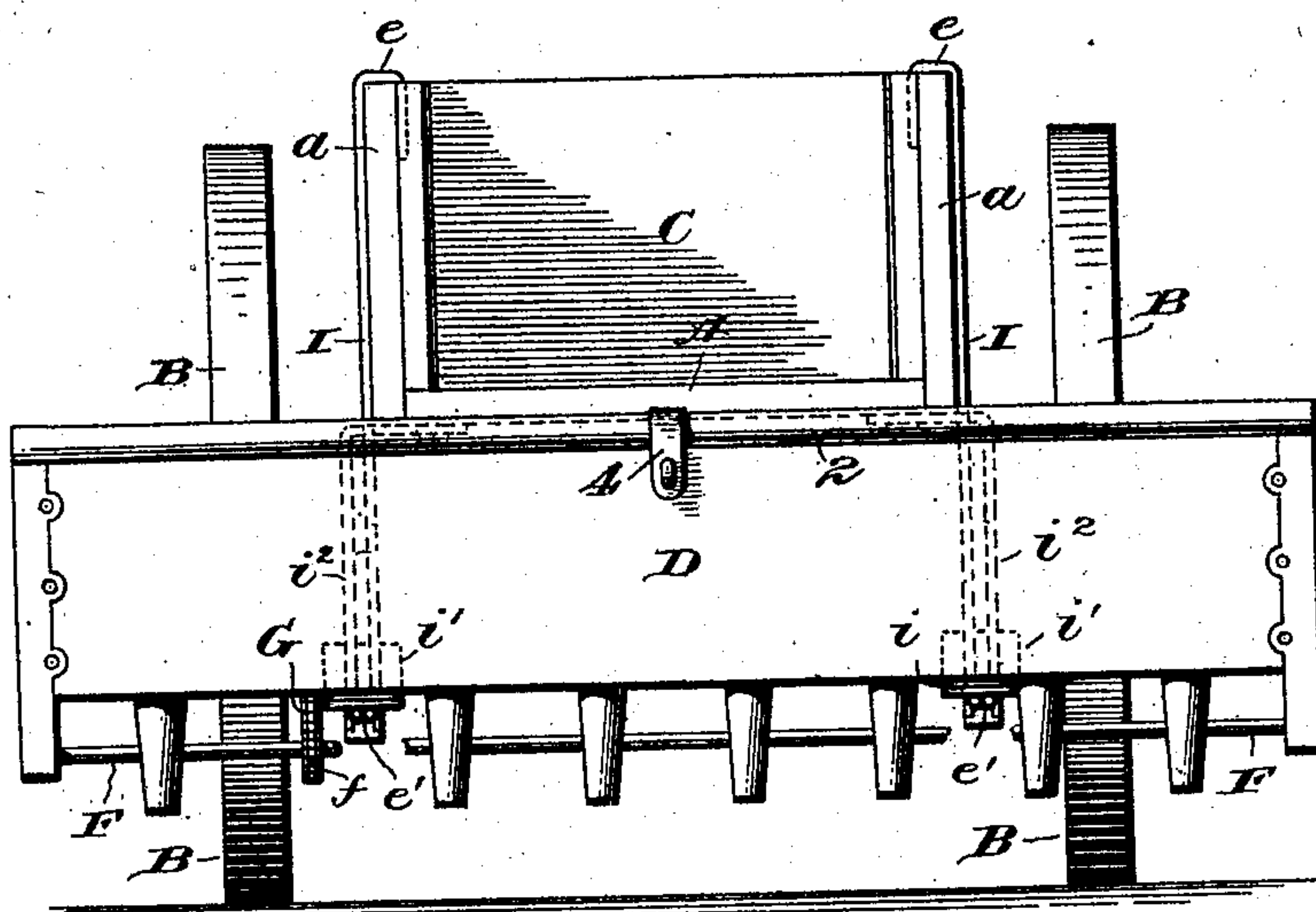
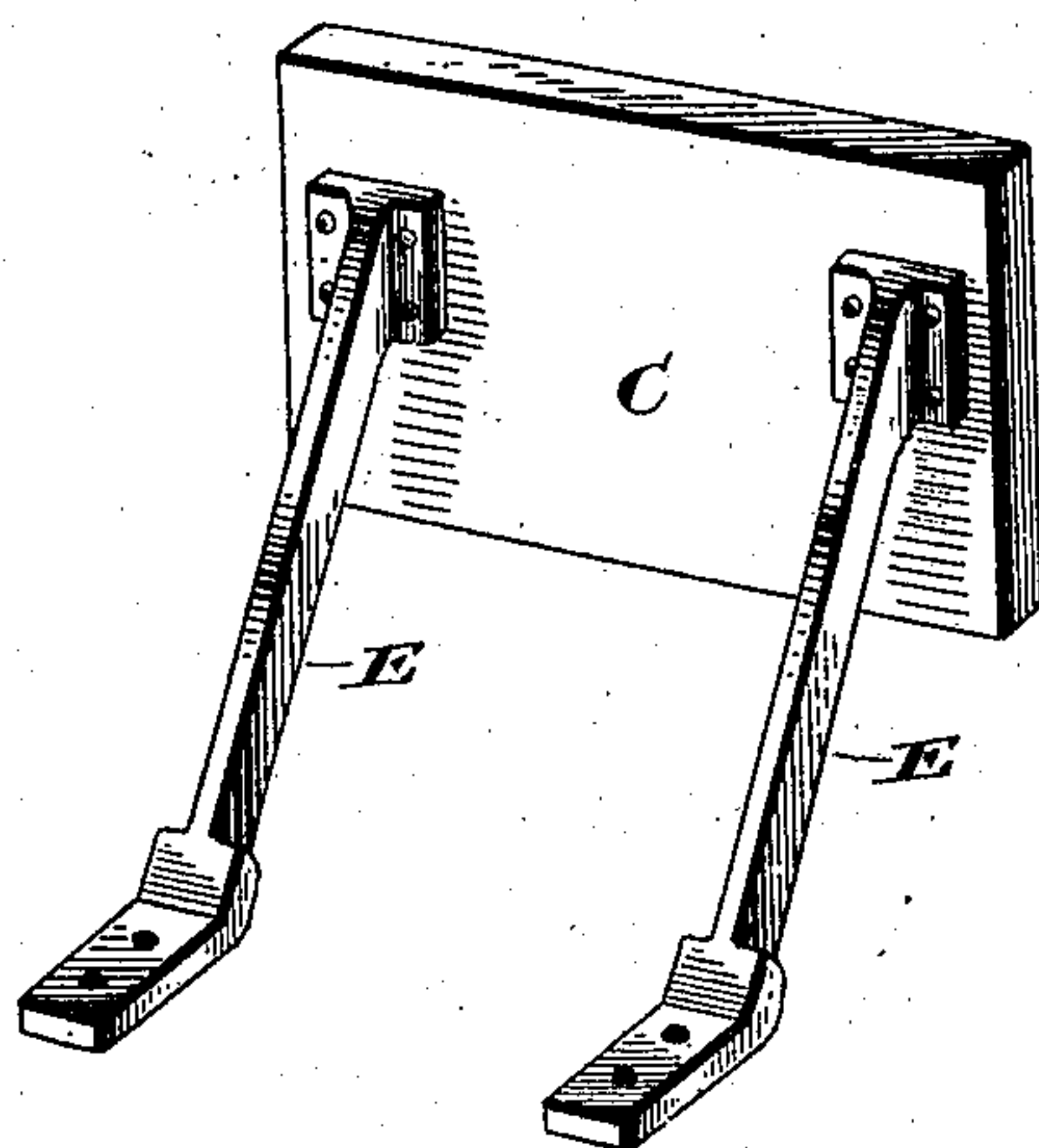


Fig. 4.



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UNITED STATES PATENT OFFICE.

WILLIAM FETZER, OF MIDDLETOWN, OHIO.

SEEDING ATTACHMENT.

No. 824,106.

Specification of Letters Patent.

Patented June 26, 1906.

Application filed December 29, 1905. Serial No. 293,794.

To all whom it may concern:

Be it known that I, WILLIAM FETZER, a citizen of the United States, residing at Middletown, in the county of Butler and State of Ohio, have invented certain new and useful Improvements in Seeding Attachments, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to broadcast seeding attachments, and has for its primary object the provision of improvements in attachments of that type designed to be used in connection with an ordinary wagon as distinguished from special supporting and conveying structures generally used with seeding-machines.

15 The invention comprehends an attachment including a seed-hopper of the elongated type and improved means for supporting the same at the rear of a wagon.

20 The invention also comprehends improved means which will support the hopper in a low position relative to the body or in a position which will enable the ends of the elongated hopper to project laterally beyond the sides of the wagon.

25 The invention further embraces a structure wherein the seed-hopper is carried directly by the end-gate of a wagon.

30 Convenient embodiments of the invention having the foregoing characteristics are illustrated in the accompanying drawings, forming part hereof, and an inspection of such drawings, in connection with the detailed description hereinafter contained, will enable a complete understanding of the invention in its broad aspects, as also of the novel details in the construction and arrangement of the parts of these several embodiments.

35 In the drawings, Figure 1 is a plan view of a fragmentary portion of an ordinary wagon-body with my improved attachment applied thereto. Fig. 2 is a side elevation of the same. Fig. 3 is an end elevation, and Fig. 4 is a detail perspective view, showing a different manner of mounting the seedbox, the latter in this instance being shown as carried by the end-gate of the wagon.

40 Referring more specifically to the drawings and for the present with special reference to the first three figures thereof, A designates a wagon-body of the ordinary type, B the rear wheels thereof, and C its end-gate.

45 D represents a seed-hopper of the elongated type, having a cover 2 hinged at 3 and provided with a latch 4, which is mounted

transversely of the wagon at the rear thereof and in a low position relative to the body A and wheels B, the ends of the hopper projecting laterally beyond the sides of the wagon to such an extent as may be found expedient, governed by the conditions attending its use. This hopper is conveniently supported from the wagon-body through the medium of downwardly and rearwardly extending brackets engaging at their upper ends with the sides *a* of the wagon-body A and at their lower ends with the hopper. The means for attaching the respective ends of these brackets include hooks *e* at their upper ends and removable nuts and bolts *e'* at their lower ends, whereby the parts may be readily taken apart or assembled in operative relation, though obviously other securing means may be supplied in lieu thereof.

50 Although the peculiar form and shape of the supporting-brackets may be changed at will, I have shown a simple and practical form and one which I believe is novel, the same comprising an arm I extending downwardly and rearwardly from the wagon-body and provided with a horizontal extension *i*, adapted to underlie the hopper, having an approximately vertically disposed portion *i'*, adapted to abut one side of the hopper, and a brace-rod *i²*, extending from the bottom of the wagon-body, where it is offset and bolted, as at *i³*, to substantially the point of junction between the horizontal and inclined members I and *i*. The arm I, brace-rod *i²*, and horizontal extension *i* are conveniently formed separately with interfitting portions bolted together at *i⁴*. This device is strong and abundantly able to support the hopper and associated parts and is braced to withstand the normal tendency to bend out of predetermined position.

55 In the form of attachment shown in Fig. 4 the parts are in general respects similar to the embodiment hereinbefore described. However, in this embodiment the brace-rods are dispensed with, and the upper ends of the brackets (indicated at E) are secured directly to the removable end-gate C. The whole of the bracket in this case is an integral casing.

60 Owing to the arrangement of the hopper relative to the wagon-body, as shown, it will be noted that the cover 2 of the hopper may be swung upwardly toward the end of the said body and thereagainst to close the space between the inner wall of the hopper and the

body to prevent escape of material there-through, and also that when in such position the cover will be inclined, so as to deflect the material into the hopper, as is obvious.

5 It is unnecessary to go into detail herein with respect to the feeding devices in the hopper, as these constitute no part of the present invention, other than to state that the drive-shaft F is operated by means of the
10 usual sprocket-wheel f thereon, geared to one of the wheels B of the wagon by a chain G, a suitable clutch H being afforded to couple and uncouple these instrumentalities.

While I have in the statement of invention
15 and special description of apparatus herein disclosed referred to seeding attachments, it is to be understood that the attachment is not restricted to the particular purpose of seeding, but is also adapted for other pur-
20 poses—as, for instance, sowing fertilizer—the particular mechanism within or associated with the hopper for effecting the feeding of the seed or sowing of the fertilizer not being involved herein.

25 I claim—

1. In combination with a wagon, a seeding attachment including an elongated hopper, and detachable means including downwardly and rearwardly extending brackets secured
30 to the wagon and underlying the hopper for supporting said hopper at the rear of the wagon, and in a low position relative to the wagon-body.

2. In combination with a wagon, a seeding
35 attachment including an elongated hopper, and detachable means for supporting said hopper at the rear of the wagon, and in a low position relative to the wagon-body, said supporting means including down-
40 wardly and rearwardly extending brackets secured to the wagon and to the hopper, and each of said brackets including a part underlying the hopper and an auxiliary brace running from the hopper to the wagon.

45 3. In combination with a wagon, a seeding attachment including an elongated hopper, and means for supporting said hopper at the rear of the wagon, and in a low position relative to the wagon-body, said supporting
50 means including downwardly and rearwardly extending brackets secured to the wagon and to the hopper, and each of said brackets including a part underlying the hopper, an auxiliary brace running from the
55 hopper to the wagon, and a part abutting the rear surface of the hopper.

4. A seeding attachment of the character described, including an elongated hopper, and detachable means for supporting said
60 hopper at the rear of a wagon and in a low position relative to the wagon-body, said supporting means including downwardly and rearwardly extending brackets adapted to be secured to the wagon and to the hopper, and
65 each of said brackets including a part adapt-

ed to underlie the hopper, and a brace adapted to extend from the hopper to the wagon.

5. A seeding attachment of the character described, including an elongated hopper, and detachable means for supporting said
70 hopper at the rear of a wagon and in a low position relative to the wagon-body, said supporting means including downwardly and rearwardly extending brackets adapted to be secured to the wagon and to the hopper, and
75 each of said brackets including a part adapted to underlie the hopper, an arm adapted to extend from the hopper to the wagon, and a brace adapted to extend from the hopper to the wagon.
80

6. A seeding attachment of the character described, including an elongated hopper, and detachable means for supporting said
85 hopper at the rear of a wagon and in a low position relative to the wagon-body, said supporting means including downwardly and rearwardly extending brackets adapted to be secured to the wagon and to the hopper, and
90 each of said brackets including a part adapted to underlie the hopper, an arm adapted to extend from the hopper to the wagon, and a brace adapted to extend from the hopper to the wagon, said brace having an offset portion adapted to underlie the wagon-body.

7. A seeding attachment of the character
95 described, including an elongated hopper, and detachable means for supporting said hopper at the rear of a wagon and in a low position relative to the wagon-body, said supporting means including downwardly and
100 rearwardly extending brackets adapted to be secured to the wagon and to the hopper, and each of said brackets including a part adapted to underlie the hopper, an arm adapted to extend from the hopper to the wagon, and a
105 brace adapted to extend from the hopper to the wagon, said brace having an offset portion adapted to underlie the wagon-body, and means for securing said offset portions to the wagon-body.
110

8. A seeding attachment of the character described, including an elongated hopper, and detachable means for supporting said
115 hopper at the rear of a wagon and in a low position relative to the wagon-body, said supporting means including downwardly and rearwardly extending brackets adapted to be secured to the wagon and to the hopper, and
120 each of said brackets including a part adapted to underlie the hopper, an arm having a hook at its upper end adapted to extend from the hopper to the wagon, and a brace adapted to extend from the hopper to the wagon said brace having an offset portion adapted to underlie the wagon-body.
125

9. A seeding attachment of the character described, including an elongated hopper, and detachable means for supporting said
130 hopper at the rear of a wagon and in a low position relative to the wagon-body, said sup-

porting means including downwardly and rearwardly extending brackets adapted to be secured to the wagon and to the hopper, and each of said brackets including a part adapted to underlie the hopper, an arm having a hook at its upper end adapted to extend from the hopper to the wagon, and a brace adapted to extend from the hopper to the wagon said brace having an offset portion adapted to underlie the wagon-body, and means for securing said offset portions to the wagon-body.

10. An attachment of the character described, comprising a seeding device including an elongated hopper, and means for securing the same to the body of an ordinary wagon whereby the hopper will be projected rearwardly from the end of said body to permit the ends of the hopper to extend laterally beyond the sides of the wagon including brackets, parts of which underlie said hopper.

11. In combination with an ordinary wagon-body, an attachment of the character described, comprising a seeding device including an elongated hopper, and means engaging said body for suspending the same from said wagon-body in a position outwardly beyond the end of said body including brackets, parts of which underlie said hopper.

12. In combination with an ordinary wagon-body, an attachment of the character described, comprising a seeding device including an elongated hopper, means engaging said body for suspending the same from said wagon-body in a position outwardly beyond the end of said body including brackets, parts of which underlie said hopper, and means for operating the seeding mechanism from one of the wagon-wheels.

13. In combination with an ordinary wagon-body, an attachment of the character described, comprising a seeding device including an elongated hopper, and means engaging said body for suspending the same from said wagon-body in a position outwardly beyond the ends of said body including brackets, parts of which underlie said hopper whereby the ends of the hopper project laterally beyond the sides of the body.

14. In combination with an ordinary wagon-body, an attachment of the character described, comprising a seeding device including an elongated hopper, means engaging said body for suspending the same from said wagon-body in a position outwardly beyond the end of said body including brackets, parts of which underlie said hopper, whereby the ends of the hopper project laterally beyond the sides of the body, and means for operating the seeding mechanism from one of the wagon-wheels.

15. In combination with an ordinary wagon-body, a seeding attachment including an elongated hopper, and means for securing the same to the body in a position outwardly

beyond the end of said body including brackets, parts of which underlie said hopper whereby it projects laterally beyond the sides of said body and occupies an operating plane below the plane of the body.

16. In combination with an ordinary wagon-body, a seeding attachment including an elongated hopper, means for securing the same to the body whereby it is suspended in a position outwardly beyond the end of said body and projects laterally beyond the sides of said body and occupies an operating plane below the plane of the body including brackets, parts of which underlie said hopper, and means for operating the seeding mechanism from one of the wagon-wheels.

17. An attachment of the character described, comprising a seeding device including an elongated hopper, and detachable means formed to engage and be supported from an ordinary wagon-body for supporting the attachment from the end of said body and in a position beyond the rear wheels of the wagon including brackets, parts of which underlie said hopper.

18. An attachment of the character described, comprising a seeding device including an elongated hopper, and means including brackets having hooks formed to engage over vertically-disposed parts of an ordinary wagon-body for supporting the attachment in a position in rear of said body.

19. In combination with an ordinary wagon-body, a seeding attachment including an elongated hopper, and detachable means formed to engage and depend from the wagon-body whereby the hopper will occupy an operating plane below the plane of the body and in rear of the wheels thereof including brackets, parts of which underlie said hopper.

20. In combination with an ordinary wagon-body, a seeding attachment including an elongated hopper, and detachable means formed to engage and be supported from the rear end of said body whereby the attachment will project outwardly in rear of the wheels and laterally beyond the sides of the body including brackets, parts of which underlie said hopper.

21. In combination with an ordinary wagon, a seeding attachment including an elongated hopper projecting laterally beyond the sides of the wagon, and means for detachably supporting said hopper at a point in rear of the wagon, said means being formed to engage and be supported from the wagon-body including brackets, parts of which underlie said hopper.

22. In combination with an ordinary wagon, a seeding attachment including an elongated hopper, and means for detachably supporting said hopper, in a position beyond the rear end of the wagon, and in a low position relative to the wagon-body, said means being formed to engage and be supported

from the wagon-body including brackets, parts of which underlie said hopper.

23. In combination with an ordinary wagon-body, an attachment of the character
5 described including an elongated hopper, and means for supporting said hopper in a position beyond the rear end of said wagon and with its discharge in close proximity to the ground including brackets, parts of which
10 underlie said hopper.

24. In combination with an ordinary wagon-body, an attachment of the character described, including an elongated hopper, and means for detachably supporting said
15 hopper in a position beyond the rear end of said wagon and with its discharge in close proximity to the ground including brackets, parts of which underlie said hopper.

25. In combination with an ordinary
20 wagon, an attachment of the character described including an elongated hopper, means

for supporting the same in a position in rear of the end of said wagon and in close proximity to the end wall of the body thereof including brackets, parts of which underlie said
25 hopper.

26. In combination with an ordinary wagon, an attachment of the character described including an elongated hopper, means
30 for supporting the same in a position in rear of the end of said wagon, and with the inner wall of the hopper in approximately the same vertical plane as the end wall of the body thereof including brackets, parts of
35 which underlie said hopper.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM FETZER.

Witnesses:

G. SULLIVAN,
F. W. CLISE.