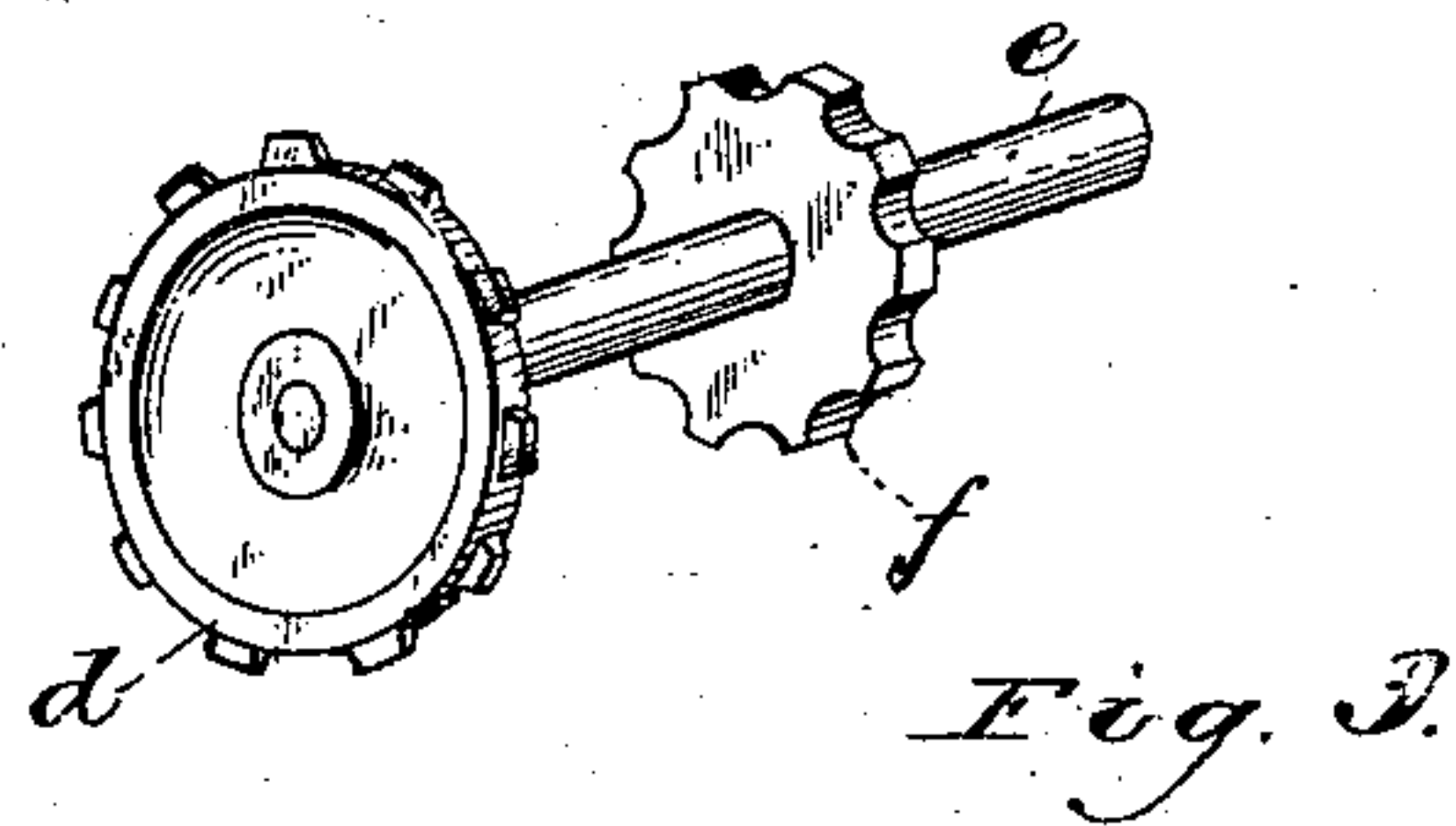
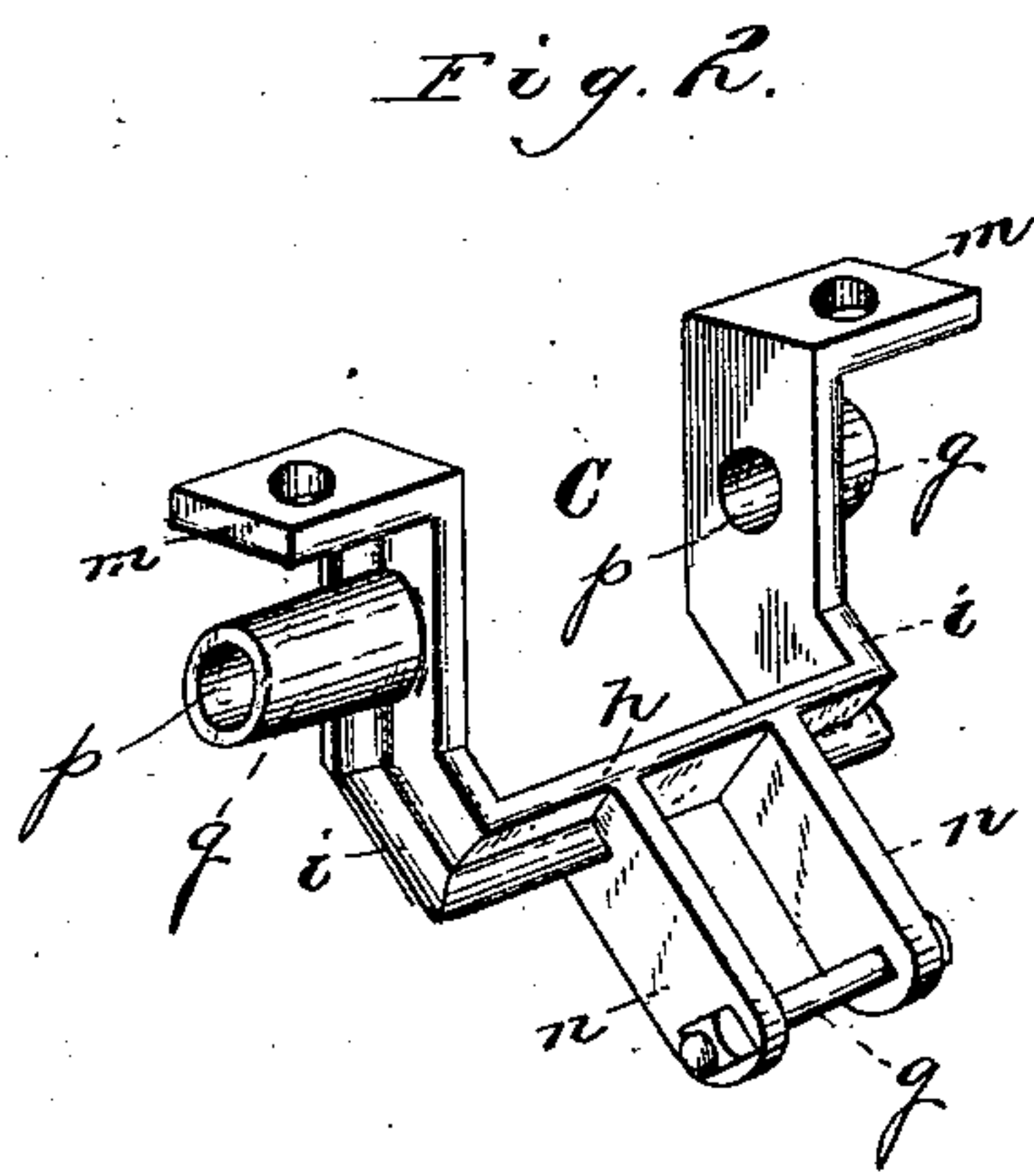
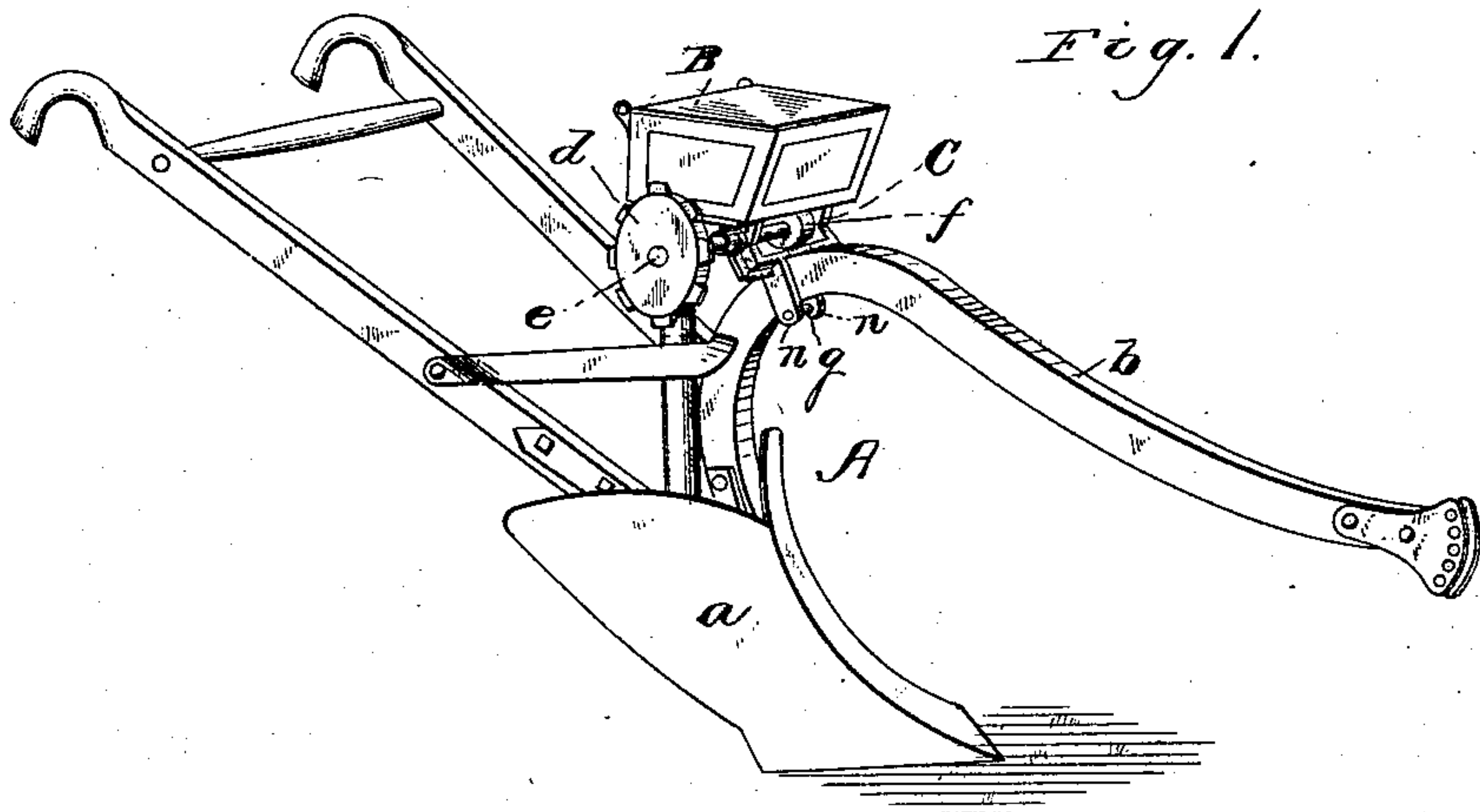


(No Model.)

T. PATES.
PLANTING PLOW.

No. 324,481.

Patented Aug. 18, 1885.



Witnesses.
 Mary Buckner.
 Saml B. Dover

Inventor.
Thomas Pates.
By John Lane
Attorney.

UNITED STATES PATENT OFFICE.

THOMAS PATES, OF ALTON, ILLINOIS, ASSIGNOR TO THE HAPGOOD PLOW COMPANY, OF SAME PLACE.

PLANTING-PLOW.

SPECIFICATION forming part of Letters Patent No. 324,481, dated August 18, 1885.

Application filed November 7, 1884. (No model.)

To all whom it may concern:

Be it known that I, THOMAS PATES, a citizen of the United States, residing at Alton, in the county of Madison and State of Illinois, have
5 invented a new and useful Improvement in Planting-Plows, of which the following is a specification.

My invention relates to planting-plows provided with a seed-box connected to the plow-beam; and my invention consists in a new and
10 improved saddle or bracket for connecting the seed-box to the beam, as hereinafter set forth and afterward pointed out in the claims.

Figure 1 is a perspective view of a planting-plow having my improvements. Fig. 2 is a
15 perspective view, enlarged, of my improved saddle or bracket C. Fig. 3 is a perspective view, enlarged, of the shaft *e*, carrying the usual driving pulley, *d*, and bevel-gear *f*.

20 Like letters refer to like parts in all the figures, in which—

A represents the planting-plow, which may be provided with the ordinary listing-plow, *a*, bent beam *b*, seed-box B, and drill-pipe *c*, as
25 well known, and shown in the drawings. The seed-box B is seated upon the saddle or bracket C, rigidly attached to the beam *b*, as shown in Fig. 1.

C represents my improved bracket or saddle, serving to connect the seed-box to the beam and afford a bearing for the shaft *e*. I preferably make said bracket C of cast or malleable iron, consisting of a U-shaped frame, having
30 a closed end, *h*, and parallel sides *i i*, the said sides provided with perforated ears or arms *m*
35 *m*, for attachment to the seed-box, and said closed end provided with perforated legs *n n*, for attachment to the beam, and the said sides *i i* provided with perforations *p*, for journal-

bearings for the shaft *e*, and said sides may be
40 provided with the protuberance *q*, perforated to afford additional length of said journal bearings, all cast in one piece, as shown in in Fig. 2.

In operation the shaft *e* is provided with
45 and carries the pulley *d*, for receiving motion, and the bevel-gear *f* for imparting motion, as shown in Fig. 3, for operating the seed-dropping mechanism of the seed-box B, as will be understood by the drawings. The said shaft *e*
50 is seated journaled in the perforations *p* in the bracket C, the seed-box attached to the ears *m m*, and said legs astride of the beam, with the bolt *g* connecting them rigidly to said beam, as will be understood by the drawings.
55

I am aware that the use of a bracket for securing the seed-box in place is in common use. Such I do not broadly claim.

Having thus set forth my invention, I claim—

1. In a planting-plow, the bracket C, having
60 a U-shaped frame with arms *m m* for attachment to the seed-box, and legs *n n* for attachment to the beam, and the sides of said frame provided with perforations *p*, for journal-bearings adapted to support the operating-shaft *e*, all substantially as and for the purpose set forth.
65

2. The cast malleable bracket C, having
70 U-shaped frame, with a closed end and parallel sides, said sides provided with perforations *p* and the perforated arms *m m*, said closed end provided with perforated legs *n n*, all substantially as and for the purpose set forth.

THOMAS PATES.

Witnesses:

CHAS. S. PHILIPS,
WM. R. PINCKARD.