

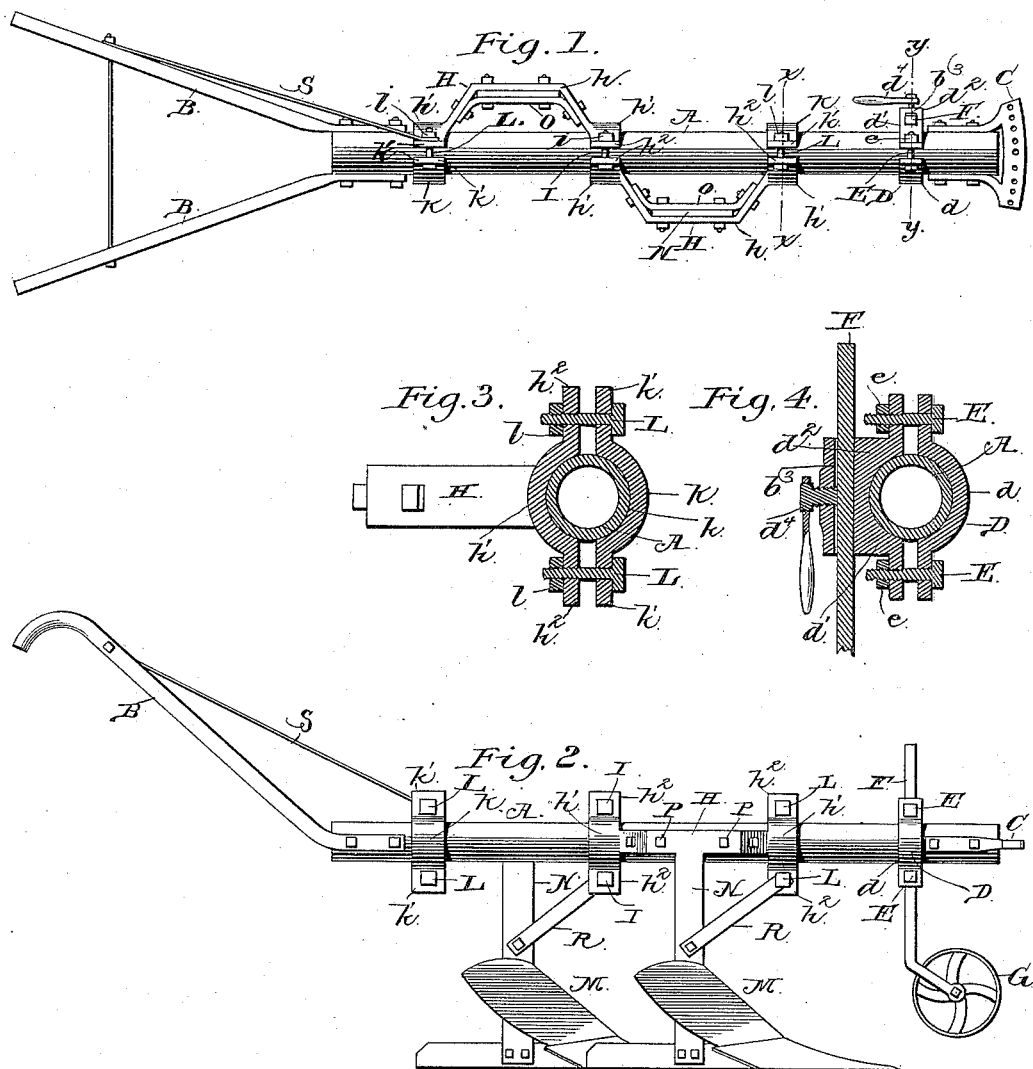
(No Model.)

P. HANSEN.

GANG PLOW.

No. 344,830.

Patented July 6, 1886.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

PEDER HANSEN, OF FRESNO, CALIFORNIA.

## GANG-PLOW.

SPECIFICATION forming part of Letters Patent No. 344,830, dated July 6, 1886.

Application filed March 12, 1886. Serial No. 195,006. (No model.)

*To all whom it may concern:*

Be it known that I, PEDER HANSEN, a citizen of the United States, residing at Fresno, in the county of Fresno and State of California, have invented a new and useful Improvement in Gang-Plows, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to an improvement in gang-plows for use in cultivating orchards and vineyards; and it consists in the peculiar construction and combination of parts, that will be more fully set forth hereinafter, and particularly pointed out in the claims.

In the drawings, Figure 1 is a top plan view of a plow embodying my invention. Fig. 2 is a side elevation of the same. Fig. 3 is a transverse detail sectional view taken on the line *xx* of Fig. 1. Fig. 4 is a similar view taken on the line *yy* of Fig. 1.

A represents the beam of the plow, which is made of a piece of iron pipe of suitable length and diameter. To the rear end of the beam are bolted the usual plow-handles, B, and to the front end thereof is bolted a clevis, C.

D represents a metallic clamp, which is made of two sections, *d* and *d'*, bolted together and concaved on their opposing sides, so as to embrace the plow-beam near its front end. Clamping-nuts *e* are screwed on the threaded ends of the bolts E, that connect the sections of the clamp together, so as to enable the said sections to be tightened on the beam, and thereby secured rigidly thereto. The section *d'* is provided with a horizontal side extension, *d''*, through which is made a vertical opening, *b'*, that receives the upper end of a standard, F. This standard carries a supporting-wheel, G, having a broad tread, and the said standard is vertically adjustable in the clamp D, and may be secured at any desired position in the said clamp by means of a set-screw, *d'*.

H represents supporting-arms, which are formed each of a single piece of metal, wrought or cast, to form the trusses *h*, which project laterally from opposite sides of the plow-beam, one in advance of the other, and having sectional securing-clamps *h'* formed at their ends, which clamps are concaved to fit the plow-beam, and are provided with vertical extending ears *h''*. The meeting ends of the arms H are secured together on the beam by means of

bolts I, which pass through transverse openings made in the ears *h''*, the said bolts being provided on their threaded ends with clamping-nuts *i*. The outer ends of the said arms H are secured to the beam by means of sectional clamps K, each of which is formed of a single plate of metal concaved at its center, as at *k*, to fit the plow-beam, and provided with extending ears *k'*. Transverse bolts L, having clamping-bolts *l*, pass through the ears *h''* on the outer ends of the arms H, and through the ears *k'* of the sectional clamps K, so as to secure the said section-clamps and the outer ends of the arms H together and to the plow-beam.

M represents the plows, which are provided with the standards N. These standards bear at their upper ends against the inner side of the central portions of the trusses *h*, and clamping-plates O, which are bent to conform to the shape of said trusses, are bolted to the inner sides thereof, so as to embrace the upper ends of the standards. Bolts P pass through the said clamping-plates, standards, and trusses, and secure the plows rigidly to the arms H. Brace-rods R are bolted to the standards N at one end, and have their upper ends bolted to the depending ears of the sectional clamps *h'*, as shown in Fig. 2. A brace-rod, S, connects the plow-handles with one of the arms H, as shown.

A plow thus constructed is exceedingly cheap and simple, is light, and easily operated, and is well adapted for cultivating orchards and vineyards, which require a plow of light draft and that does not run very deeply in the ground.

Having thus described my invention, I claim—

1. The combination of the plow-beam, the lateral arms having the section-clamps bolted together on opposite sides of the beam, and having the ears projecting from the upper and lower sides of the beam, the plow-standards bolted to the lateral arms, the braces R, bolted to the plow-standards and to the depending ears, the plow-handles bolted to the rear end of the beam, and the brace-rod S, connecting the said handles with the upwardly-projecting ears of the rearward section-clamp, substantially as described.

2. The combination of the hollow tubular

plow-beam, the lateral arms H, having the curved section, clamping-arms provided with the vertically-projecting ears bolted together on opposite sides of the beam, the plow-stand-  
5 ards bolted to the lateral arms, and the clamping-plates O, bolted to the said standards and to the lateral arms, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

PEDER HANSEN.

Witnesses:

I. TIELMAN,

C. J. HUGHES.