

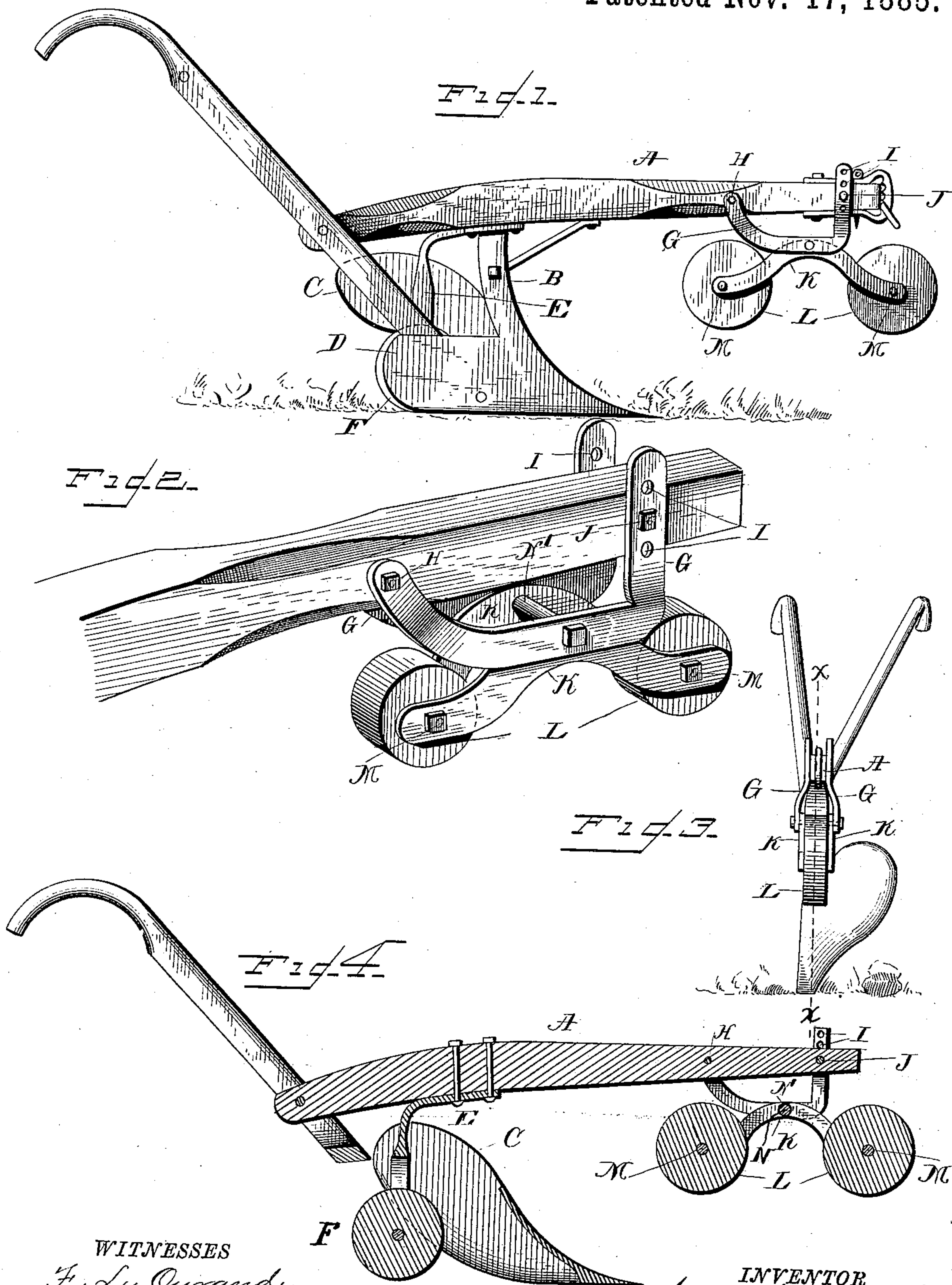
(No Model.)

A. M. FITCH.

PLOW.

No. 330,475.

Patented Nov. 17, 1885.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

ASA M. FITCH, OF SEYMOUR, INDIANA.

## PLOW.

SPECIFICATION forming part of Letters Patent No. 330,475, dated November 17, 1885.

Application filed September 12, 1885. Serial No. 176,945. (No model.)

*To all whom it may concern:*

Be it known that I, ASA M. FITCH, a citizen of the United States, and a resident of Seymour, in the county of Jackson and State of Indiana, have invented certain new and useful Improvements in Plows; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a side view of a plow equipped with my improvements. Fig. 2 is a perspective view of the wheel attachment to the front end of the plow-beam. Fig. 3 is a front view of the plow-beam equipped with my improved attachment; and Fig. 4 is a longitudinal vertical sectional view taken on the line *xx* in Fig. 3.

The same letters refer to the same parts in all the figures.

This invention relates to plows; and it has for its object to provide a wheel-truck support for the front end of the beam, which shall be an improvement on the device for which Letters Patent of the United States were granted to myself on the 12th day of May, 1885, No. 317,754.

The invention further has for its object to provide an improvement in the construction of the landside of the plow, whereby the latter may be easily tilted, so as to throw its entire weight upon the rear supporting-wheel or furrow-wheel for backing or transporting the plow.

With these ends in view the invention consists in the improved construction, arrangement, and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, A designates the plow-beam; B, the standard; C, the mold-board; D, the landside, and E the standard carrying the furrow-wheel F. All of these parts may be of ordinary construction, with the exception of the landside D, which is made rather higher than is usually the case, so as to afford protection for the furrow-wheel and prevent the latter from becoming

clogged by the dirt falling back upon it. The rear end of the landside is cut off on a curved line, as will be plainly seen in Fig. 1 of the drawings, parallel to the rim or periphery of the furrow-wheel, which latter extends but slightly in rear of the said landside. The latter will thus thoroughly protect the furrow-wheel, but will at the same time permit the plow to be tilted so as to throw its entire weight upon the latter for backing or transportation, as the case may require.

Attached to the beam A, near the front end of the same, is a frame consisting of two side pieces, G G, the rear ends of which extend upwardly and are attached to the beam A by means of a transverse pivoting-bolt, H. The front ends of the said frame-pieces are also extended upwardly and are provided with a series of perforations, I I, to receive a transverse pin or bolt, J, whereby the said frame-pieces may be connected adjustably with the front end of the plow-beam. The lower ends or sides of the frame-pieces G G are bent slightly outwardly, so as to admit of the insertion between them of the bent or approximately V-shaped pieces or yokes K K, between the ends of which the wheels or rollers L L are journaled upon the transverse pins or spindles M M. The yokes K K are mounted pivotally upon a transverse pin or bolt, N, and on the latter, between the said yokes, is placed a sleeve, N', which serves to space and brace the same, and to give stiffness and solidity to the several parts.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of this invention will be readily understood. The roller-frame or wheel-frame at the front end of the plow-beam may be readily adjusted so as to raise or lower the wheels or rollers by simply removing the pin or bolt J and reinserting it in a different set of the perforations I.

The construction of the roller-frame and the method of attaching it to the plow-beam are more simple and durable than those shown in my patent, to which reference has been made above, and the beam is not weakened thereby. The rollers will cause an even and easy draft, and will, in passing over the slight natural unevennesses of the soil, impart to the plow a



slightly vibrating motion, which tends to keep the plow loose in the soil, thus causing it to work freely and easily. It will be seen that the forward ends of the side pieces, G, may be  
5 adjusted vertically without disturbing the pivot-bolt of the yoke or roller-frame, which was necessary in my patent above referred to, and that the adjustment of the said yoke or frame is much more easily, rapidly, and con-  
10 veniently effected by arranging it in the manner described in this specification than was possible by the construction described and claimed in my previous patent, above referred to.

15 The improved landside, constructed as herein described, forms a housing and protection for the furrow-wheel, which is thereby prevented from being clogged. It also prevents catching in the act of backing the plow, and  
20 enables the latter to be easily tilted back, so as to throw its entire weight upon the said furrow-wheel for transportation over the surface of the ground.

Having thus described my invention, I claim and desire to secure by Letters Patent of the 25 United States—

In a plow, the combination of the beam, the frame-pieces pivoted to the sides of the latter by their upwardly-extending rear ends, and having upwardly-extending transversely-per- 30 forated front ends, whereby they are adjustably connected with the said beam by a transverse pin or bolt, a pair of yokes pivoted between the said frame-pieces and having wheels or rollers journaled between their ends, and a 35 sleeve mounted upon the pivoting-bolt of the said yokes, substantially as and for the purpose herein set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature 40 in presence of two witnesses.

ASA M. FITCH.

Witnesses:

CHAS. H. HARSCH,  
JOEL O. WHITE.