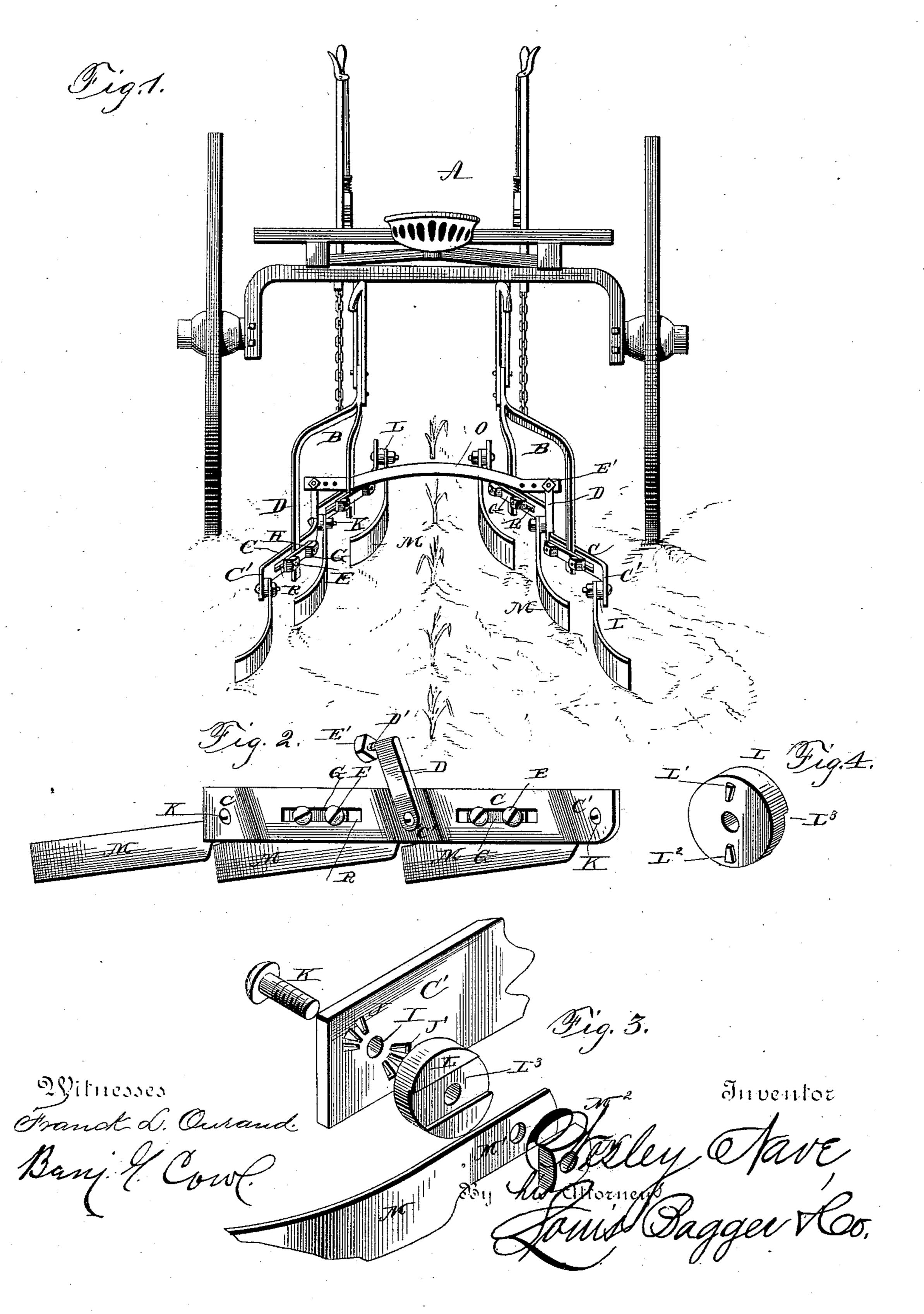
W. NAVE.

ATTACHMENT FOR CULTIVATORS.

No. 376,336.

Patented Jan. 10, 1888.



United States Patent Office.

WESLEY NAVE, OF SOUTH HAVEN, KANSAS.

ATTACHMENT FOR CULTIVATORS.

SPECIFICATION forming part of Letters Patent No. 376,336, dated January 10, 1888.

Application filed September 9, 1887. Serial No. 249,215. (No model.)

To all whom it may concern:

Be it known that I, Wesley Nave, a citizen of the United States, and a resident of South Haven, in the county of Sumner and State of Kansas, have invented certain new and useful Improvements in Attachments to Cultivators; 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 rear view of a cultivator-frame, showing my attachment secured thereto. Fig. 2 is a side view of my attachment removed from the cultivator-frame. Fig. 3 is a detail perspective view of the rear end of one of the cultivator-beams, showing the several parts 20 separated; and Fig. 4 is a detail view of the

disk.

Similar letters of reference indicate corre-

sponding parts in all the figures.

My invention has relation to attachments for cultivators; and it consists in the improved construction and combination of the parts of the same, as will be hereinafter more fully described and claimed.

In the accompanying drawings, the letter A go denotes the wheeled frame of a cultivator having standards B, to which my improved attachment is removably and adjustably secured.

C C indicate the longitudinally-slotted rearwardly-diverging cultivator-beams, bent to 35 form inclined offsets or shoulders C' C'. Secured to the outer sides of two of these diametrically-opposite offsets or shoulders are posts D D, having rearwardly projecting screw-threaded projections D' D', to which is 40 secured, by means of nuts E' E', an arched bar, O, the straight ends of which are perforated, thus adjustably connecting the cultivatorbeams. These beams are connected to the standards of the wheeled frame by screws E 45 E, passed through the longitudinal slots R in the beams, perforated plates G G upon the ends of said screws, and nuts HH, forcing the plates tightly against the standards, which are placed between the plates and the inner sides of 50 the beams, thus securing the attachment to the

wheel-frame, removably as well as adjustably,

inasmuch as the longitudinal slots will admit

of the nuts, bolts, and plates being removed forwardly or rearwardly to accommodate various sizes of cultivator frames, according to 55 whether the standards are farther apart or nearer to each other.

The inclined shoulders or offsets upon the beams have apertures I I located therein, and radial recesses above and below said apertures 60 J and J', respectively. Threaded bolts K K are inserted through these apertures and perforated disks L, having upon one of their sides, above and below the perforations, teeth L' L2, respectively, which engage the radial 65 recesses in the cultivator-beams, and upon the opposite sides of these disks are recesses L3, extending entirely across the sides of the same. The disks are placed upon the bolts with their teeth engaging the radial recesses, and curved 70 scrapers or cultivator-blades M M, having offsets M' M' and apertures M2 M2 in said offsets, are secured removably in the recesses in the disks by means of nuts N N being screwed upon the ends of the bolts, thus forcing the 75 teeth upon the disks firmly in the radial recesses in the cultivator-beams and the blades tightly in the recesses in the disks. Should it be desired to adjust the blades to cut deeper in the earth, the nuts N N are loosened, and 80 the disks are turned to the right, thus lowering the blades, and the nuts are then tightened, forcing the teeth upon the sides of the disks in the radial recesses in the cultivatorbeams, in the same manner as above described. 85

My invention is well adapted for the cultivation of corn, cotton, and small plants, and the cultivator blades or scrapers may be changed to throw the soil either toward or from the plant by changing the blades from 90 one cultivator-beam to the other, and when the blades or scrapers have become dull or worn they may be easily removed for the purpose of sharpening them or replacing them with new ones.

I would have it distinctly understood that my invention may be attached to any style of a cultivator-frame by any ordinary mechanical skill, and I reserve to myself the right to make such changes or modifications in the construction of my device which may suggest themselves, in order to adapt it to frames of different construction, without departing from the spirit of my invention.

From the foregoing description, taken in connection with the accompanying drawings, the construction, operation, and advantages of my invention will be readily understood. 5 It will be seen that it is simple, strong in construction, and exceedingly efficient and satisfactory in its operation.

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

ic United States—

1. In an attachment for cultivators, the combination of perforated cultivator-beams, ing rearwardly-projecting screw-threaded pro-15 jections, an arch-bar the straight ends of which are perforated, and tightening-nuts.

2. In an attachment for cultivators, the combination of the standards of a wheeled N. W. Baker.

frame, slotted shouldered beams, screw-threaded bolts passing through said slots, perforated 20 plates parallel with the slotted portions of said beams, tightening-nuts, posts secured to said beams and having rearwardly-projecting screw-threaded projections, an arch-bar the straight ends of which are perforated, tight- 25 ening-nuts for securing said arch-bar to the posts, and curved adjustably-secured cultivator-blades.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in 30 cultivator-blades secured thereto, posts hav- presence of two witnesses.

Witnesses: