

(No Model.)

A. BARROWS, Sr.
LAND AND LAWN ROLLER.

No. 259,460.

Patented June 13, 1882.

Fig 1

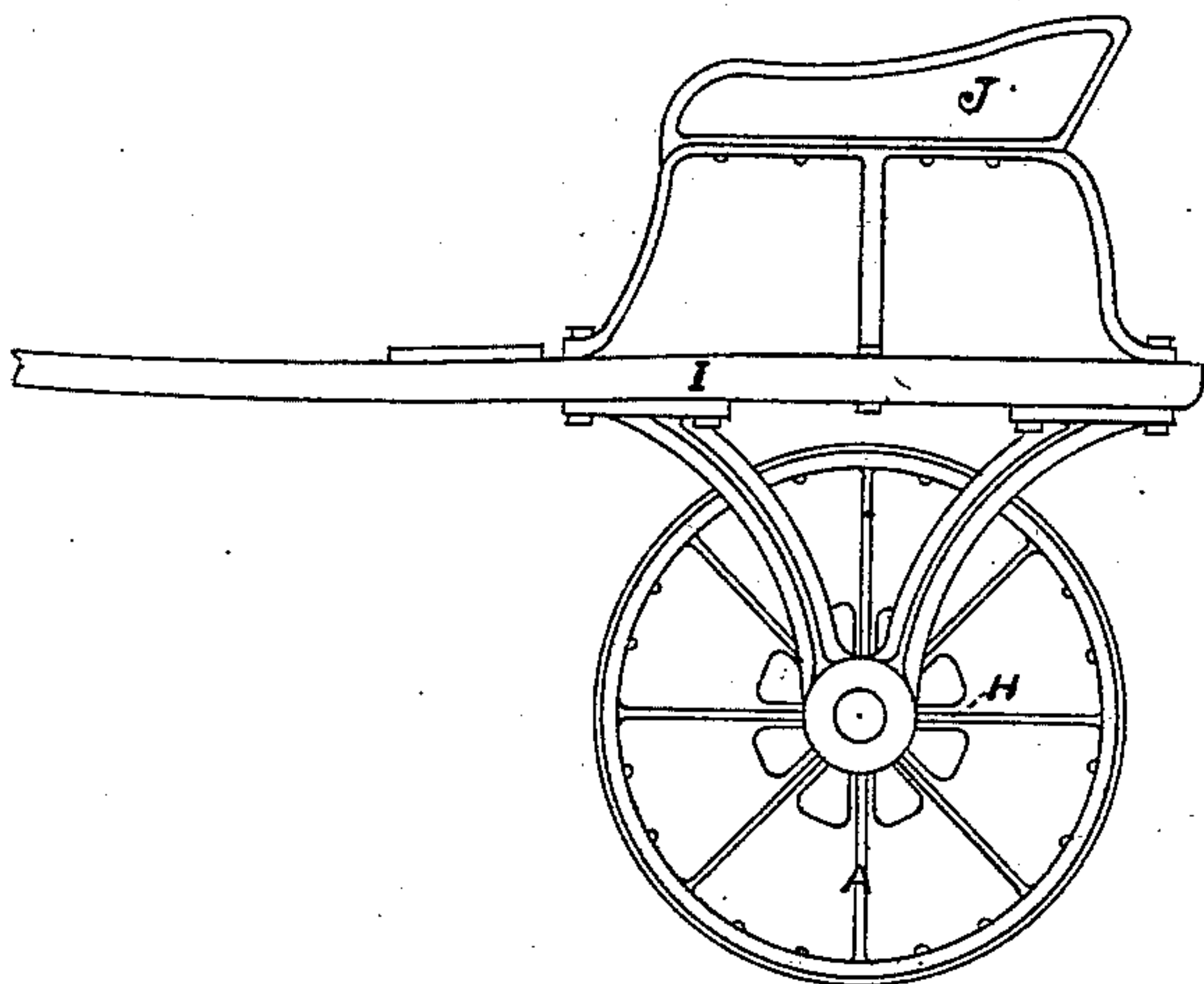


Fig 2

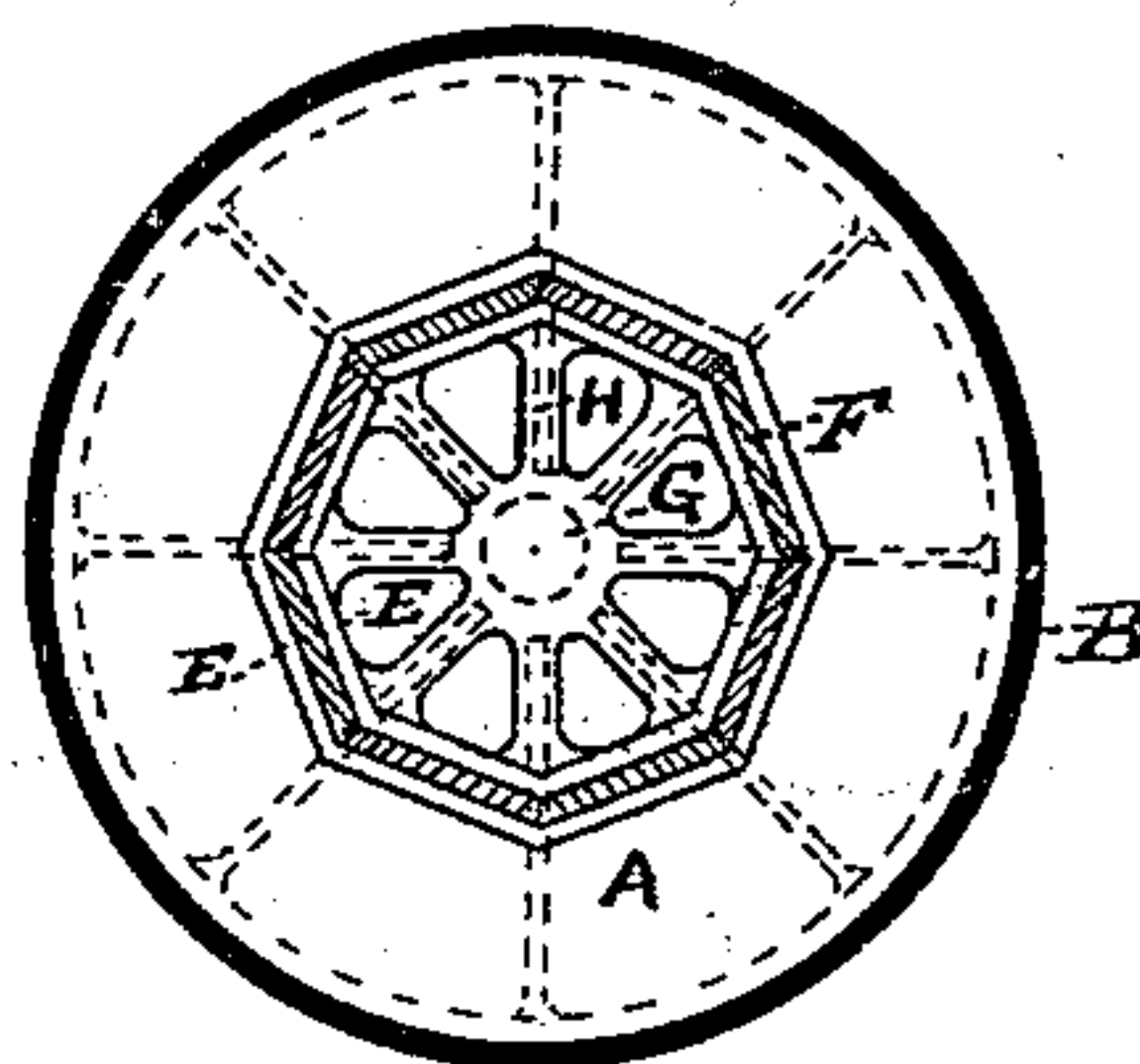


Fig 3

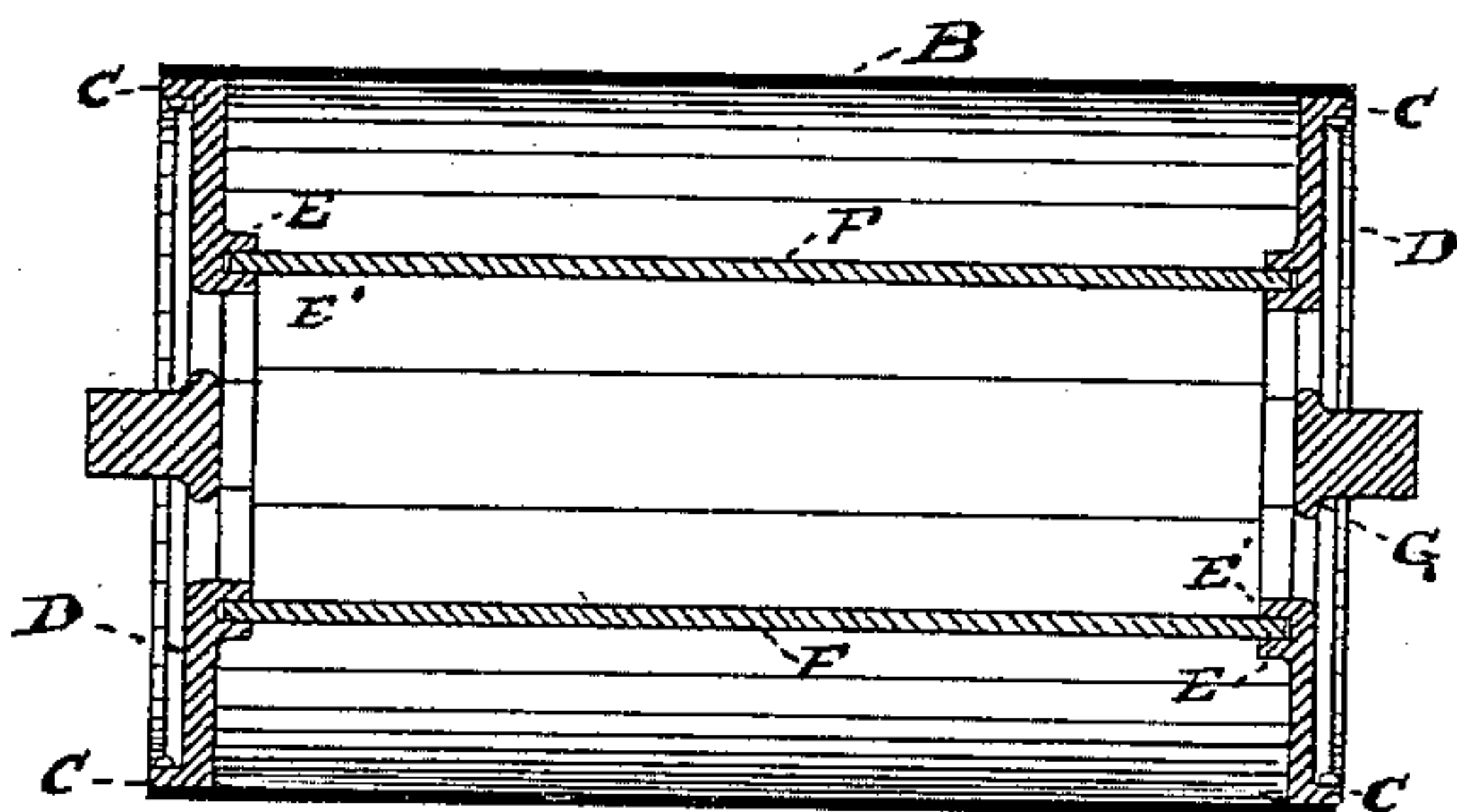
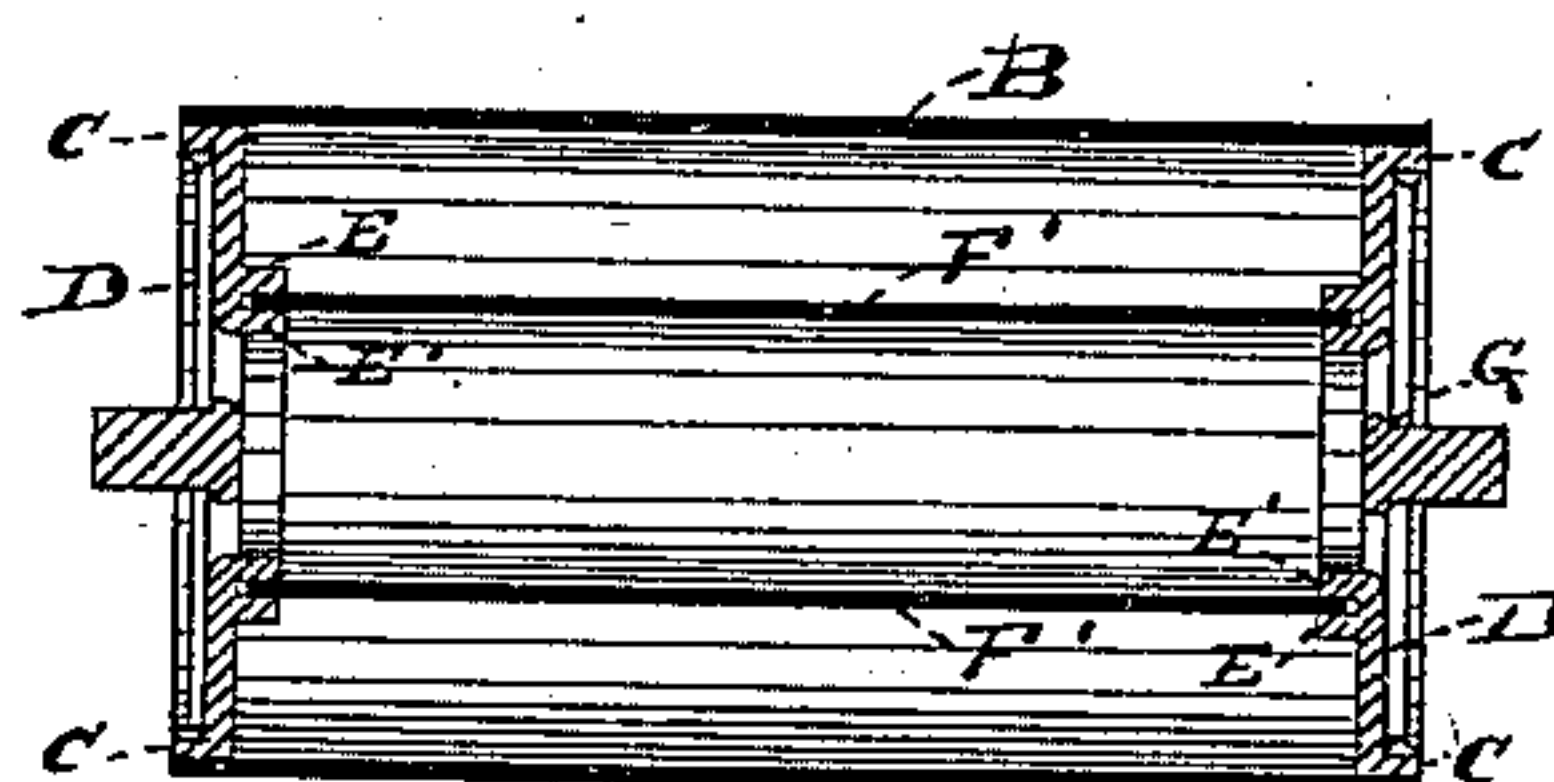


Fig 4



Witnesses

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UNITED STATES PATENT OFFICE.

ARAD BARROWS, SR., OF PHILADELPHIA, PENNSYLVANIA.

LAND AND LAWN ROLLER.

SPECIFICATION forming part of Letters Patent No. 259,460, dated June 13, 1882.

Application filed July 12, 1881. (No model.)

To all whom it may concern:

Be it known that I, ARAD BARROWS, Sr., of the city and county of Philadelphia, and State of Pennsylvania, have invented certain
5 new and useful Improvements in Land and Lawn Rollers for Agricultural and other Uses; and I do hereby declare the following to be a sufficiently full, clear, and exact description thereof to enable others skilled in the art to
10 make and use the said invention.

The purpose of this invention is at a lower cost to produce rollers of sufficient weight with a yielding metallic face, so as to be less liable to breakage than rollers heretofore made.

15 The nature of my invention consists in forming rollers with a cylindric bearing-face of yielding metal, and securing the same to metallic heads holding a concentric lining of wood in cylindric or prismatic form, the space
20 between the wooden lining being filled with a concrete or other heavy plastic material.

I will now proceed to describe the invention, referring in so doing to the drawings annexed, in which—

25 Figure 1 shows a side elevation; Fig. 2, a cross-section; Fig. 3, a longitudinal section, and Fig. 4 a modification thereof.

The same letters of reference apply to the same parts in the several figures.

30 A represents a roller having a cylindric shell, B, made of ductile metal, secured by riveting to flanges C on the heads or plates D.

The heads or plates D are formed with flanges E and E', of polygonal form, which fit
35 over and retain the ends of the sides of a prismatic box, F.

The space between the flange E and the flange C on each head D is closed or covered

by a continuous plate, while that within the flanges E is provided with a concentric hub, G, 40 and spokes H, in the form shown in Fig. 4, which is applicable to rollers of small dimensions. The flanges E and E' are of such small diameter that a tube, F', may be substituted for the prismatic box F.

45 After the cylindric shell B has been riveted to the flange C of one head D and the prismatic box placed in position between the flanges E and E', the cylinder B being in vertical position with the head D beneath it, I
50 fill the space between the box F and the shell B with a concrete, formed preferably of burned sand and caustic hydraulic cement. I then apply the other head D and rivet it to the shell B, and apply a frame or yoke, H, for purposes of traction, and in large sizes a seat, J, 55 for the driver.

By this means I am enabled at a lower cost than heretofore to produce land and lawn rollers having durable ductile working-faces, and
60 of sufficient weight to be as effective as those of cast-iron rolling-surfaces not procurable at as small cost.

Having described my invention, what I claim therein as my invention is— 65

A land-roller having a rolling-surface, B, of flexible metal, combined with heads D and an inner casing or box, F, and having the space between such rolling-surface B and box F and heads D filled with a concrete arranged to
70 operate as a weight or load, substantially as and for the purpose set forth.

ARAD BARROWS, SR.

Witnesses:

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