

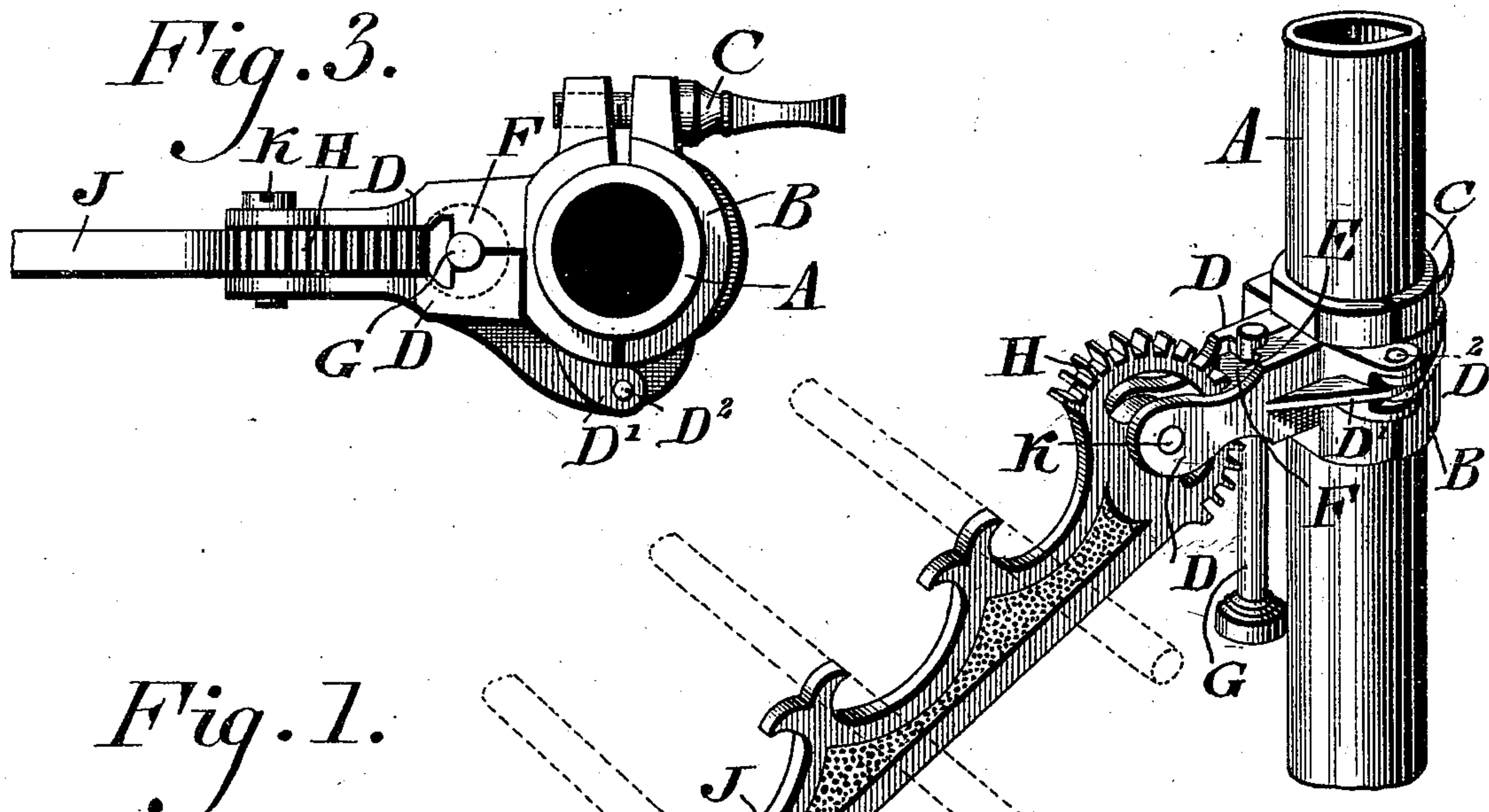
(No Model.)

M. S. MELZER.

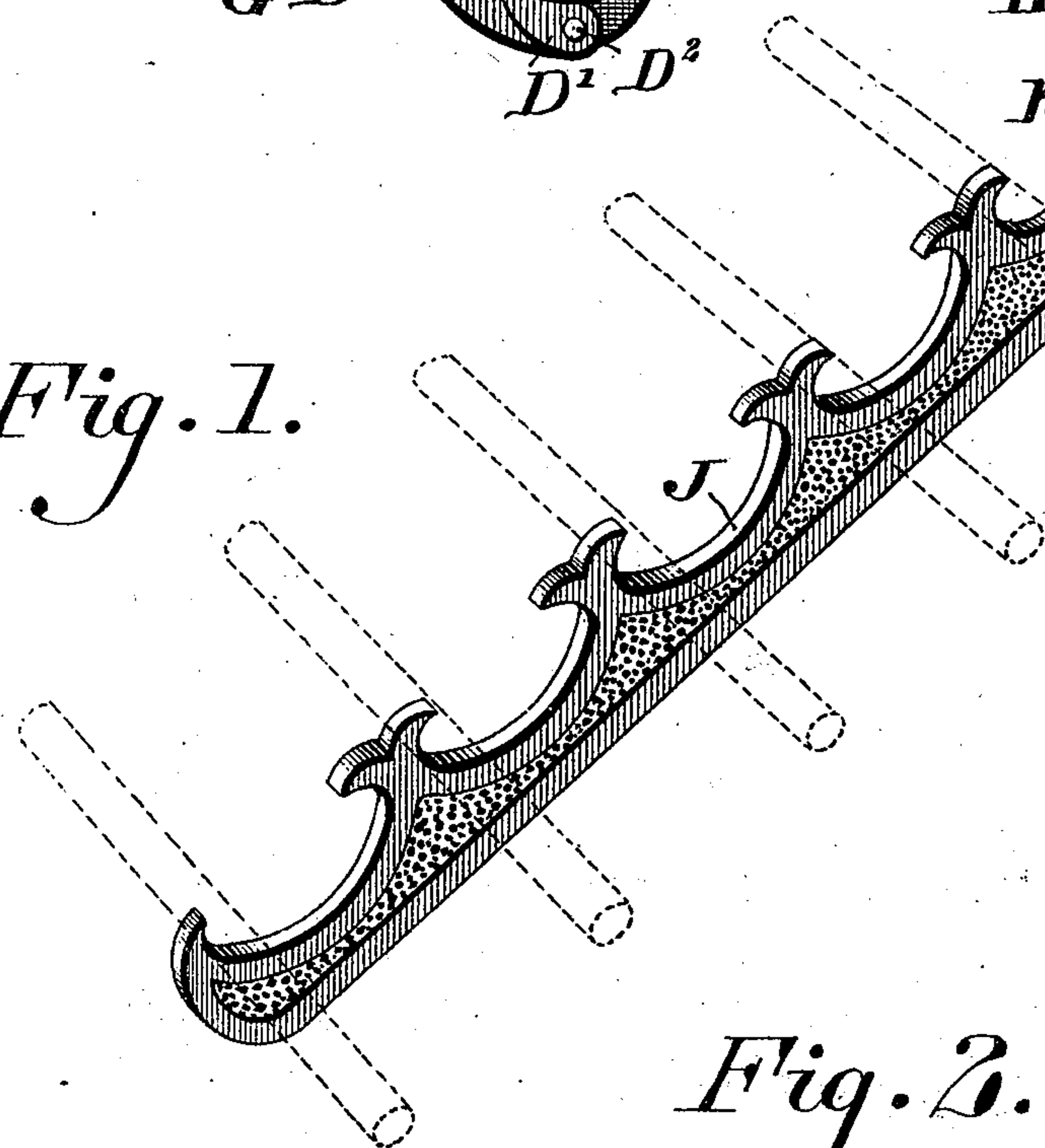
DISPLAY RACK WITH ADJUSTABLE ARM.

No. 516,869

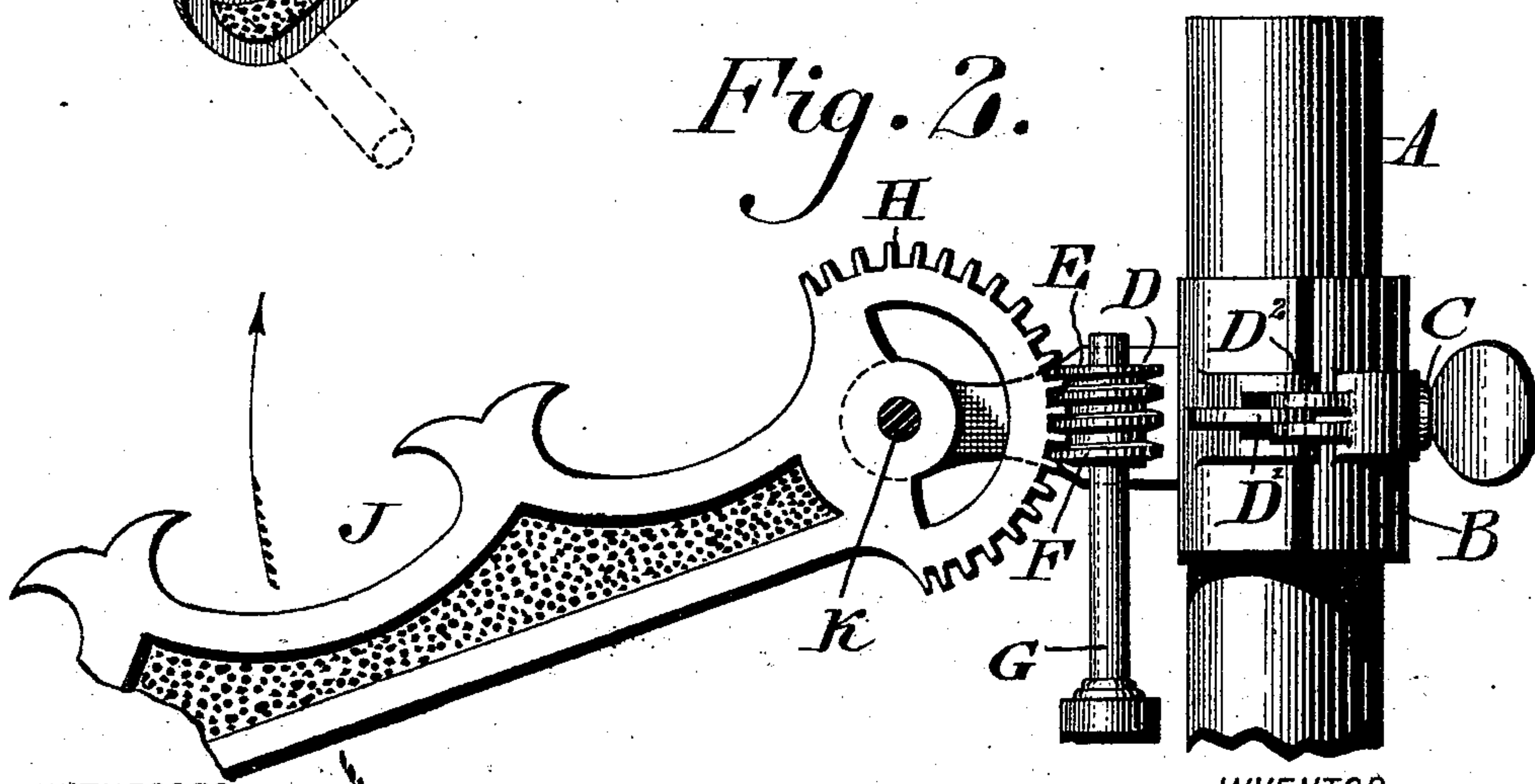
Patented Mar. 20, 1894.



*Fig. 1.*



*Fig. 2.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## DISPLAY-RACK WITH ADJUSTABLE ARM.

SPECIFICATION forming part of Letters Patent No. 516,869, dated March 20, 1894.

Application filed June 21, 1893. Serial No. 478,321. (No model.)

*To all whom it may concern:*

Be it known that I, MANUEL S. MELZER, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Adjustable Shelf and Show Fixture Arms, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a shelf and show fixture arm which may be readily adjusted in acute, obtuse or right angular position, or raised or lowered, or placed horizontally so as to exhibit or display goods as desired in said positions, the bearings of the gearing for said arm, and the arm itself being formed of sectional parts, whereby said gearing and arm may be readily removed and restored, and said bearings are attached to a clip or clamp by which the device may be sustained in vertical position on a standard or support and adjusted therein.

Figure 1 represents a perspective view of a shelf or show fixture arm embodying my invention. Fig. 2 represents a side elevation of a portion of the same on an enlarged scale. Fig. 3 represents a top or plan view thereof.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings: A designates a rod or standard, to which is secured the clip B, the latter being formed of sections which are hinged together, so as to be opened, and thus be readily applied to said standard, said sections having a screw C for closing the same, and firmly clamping the clip to the standard, it being evident that said clip is vertically adjustable on the standard, and that it may be removed therefrom, when the screw is disconnected from one of the sections, thus permitting the latter to be opened. Projecting from the clip is an ear D, which is formed in sections, one (or both) of which is hinged as at D' to the clip, whereby said sections may be opened and closed, the pintle D<sup>2</sup> being common to the knuckles of the clip and of said ear. The ear has a chamber E within the same at the inner end thereof, to receive the worm F which is secured to the spindle whose bearings are on said ear. The outer

end of the ear has mounted on it the worm wheel H, which is located between the sections of the ear, and has the worm F meshing with it. Connected with or secured to the worm wheel is a radial arm J, which is adapted to hold goods to be displayed, or shelves, cross bars, &c., on which goods may be held for displaying purposes. It being evident that by properly rotating the spindle G, motion may be imparted to the worm wheel, and thus the angle of the arm J may be varied, or said arm raised or lowered, or placed in horizontal position as desired.

The screw or pin K forms the axis of the wheel H, and serves to connect the sections of the ear D. When said screw is removed, the sections of the ear may be separated, and the worm wheel F, its spindle or shaft G, and the worm wheel H with the arm J may be displaced from said ear. The clip B may also be unscrewed and removed from the standard A when so desired.

The parts may be reassembled, the clip located, the screws tightened, and thus the device is again in operative condition.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A fixture arm having a wheel connected with the inner end thereof, in combination with ears connected with a clip, and formed in sections having a chamber within the same, a worm mounted in said chamber meshing with said wheel, and a pin on said ears supporting the wheel, a section of the ear being pivotally mounted on said clip, and the parts named combined substantially as described.

2. The sectional ear D with the chamber E within the same, the worm F mounted in said chamber, the worm wheel H engaging with said worm and the pin K supporting said wheel and connecting the sections of the ear D, in combination with the sectional clip B, said ear and clip having knuckles, and an axial pin connecting the same, substantially as described.

3. A clip formed in sections with knuckles thereon, and an axial pintle D<sup>2</sup> connecting the same, the ear D formed in sections and

- having a knuckle connected by said pintle with the knuckles of the clip, a worm D within the sections of said ear, a worm wheel H mounted in said ear meshing with said worm, 5 an arm J connected with said worm wheel and the axial pin K of the wheel H, said pin K connecting the sections of the ear D, said parts being combined substantially as described.
- 10 4. A support, a clip formed of pivoted sections adjustable on said support, an ear on said clip having a section pivoted to said clip, a clamping pin for the sections of said ear, a worm wheel mounted on said clamping pin and having an arm projecting therefrom, 15 and a worm mounted in said ear between the sections thereof, said parts being combined substantially as described.

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Witnesses:

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