

(No Model.)

G. W. NOCK.

ELEVATING DEVICE FOR COVERS OF GAS PURIFIERS.

No. 348,137.

Patented Aug. 24, 1886.

Fig. 1.

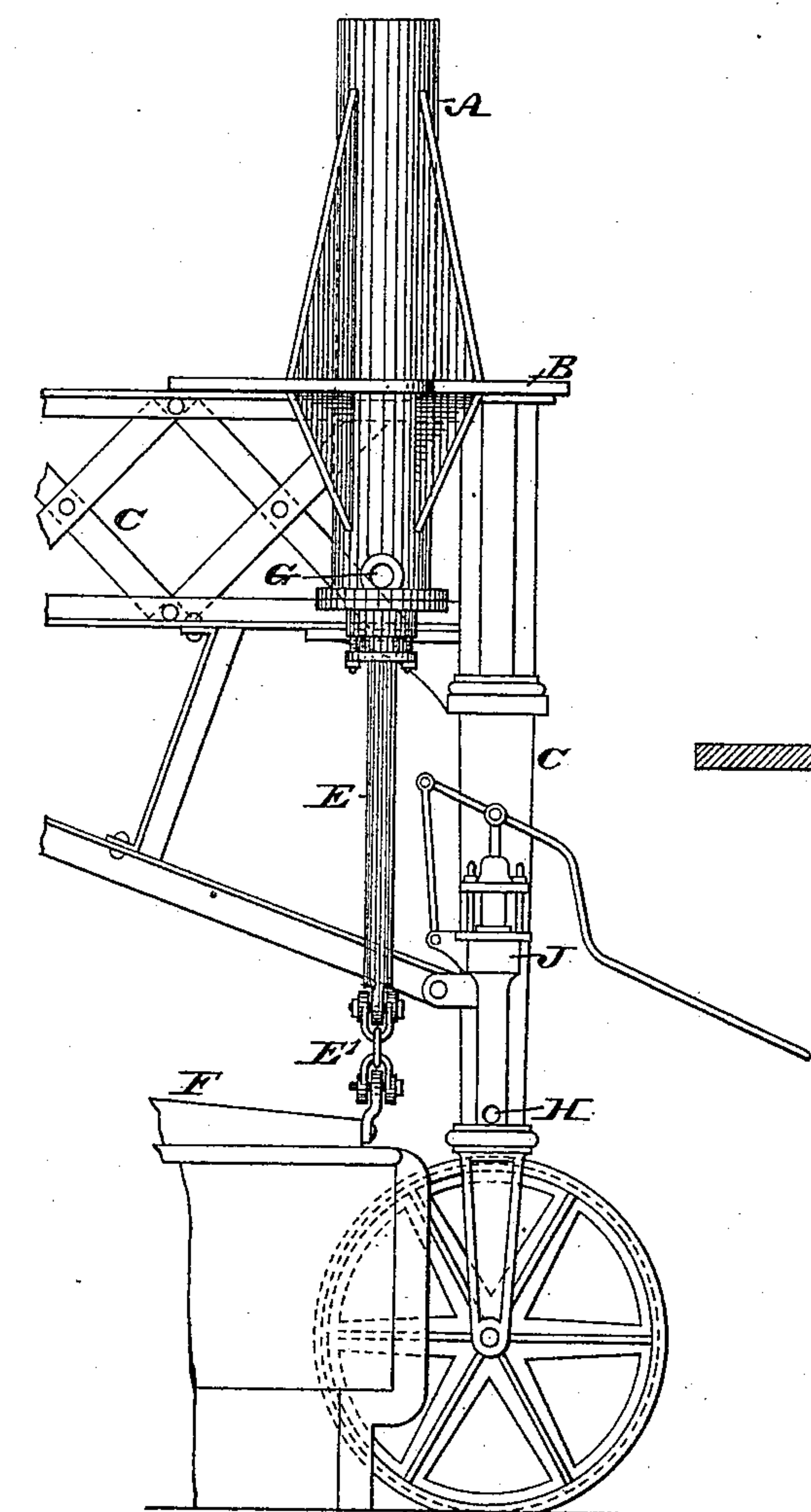


Fig. 3.

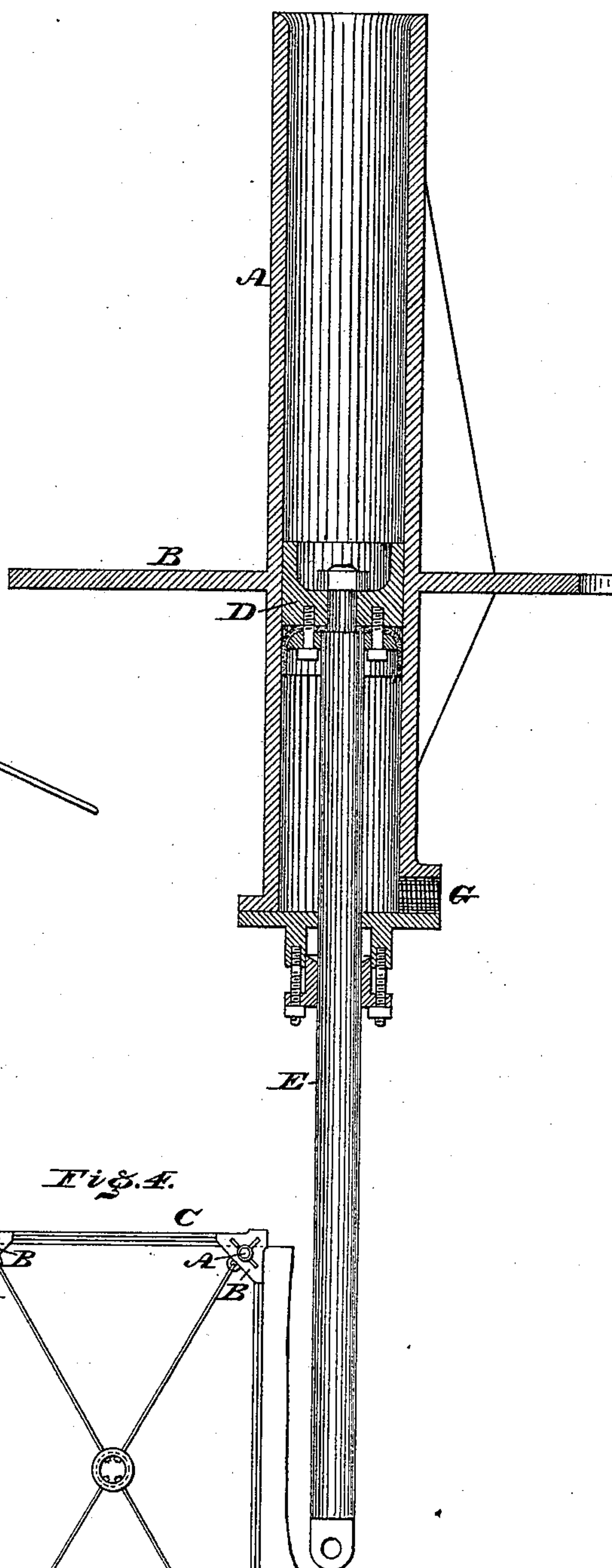
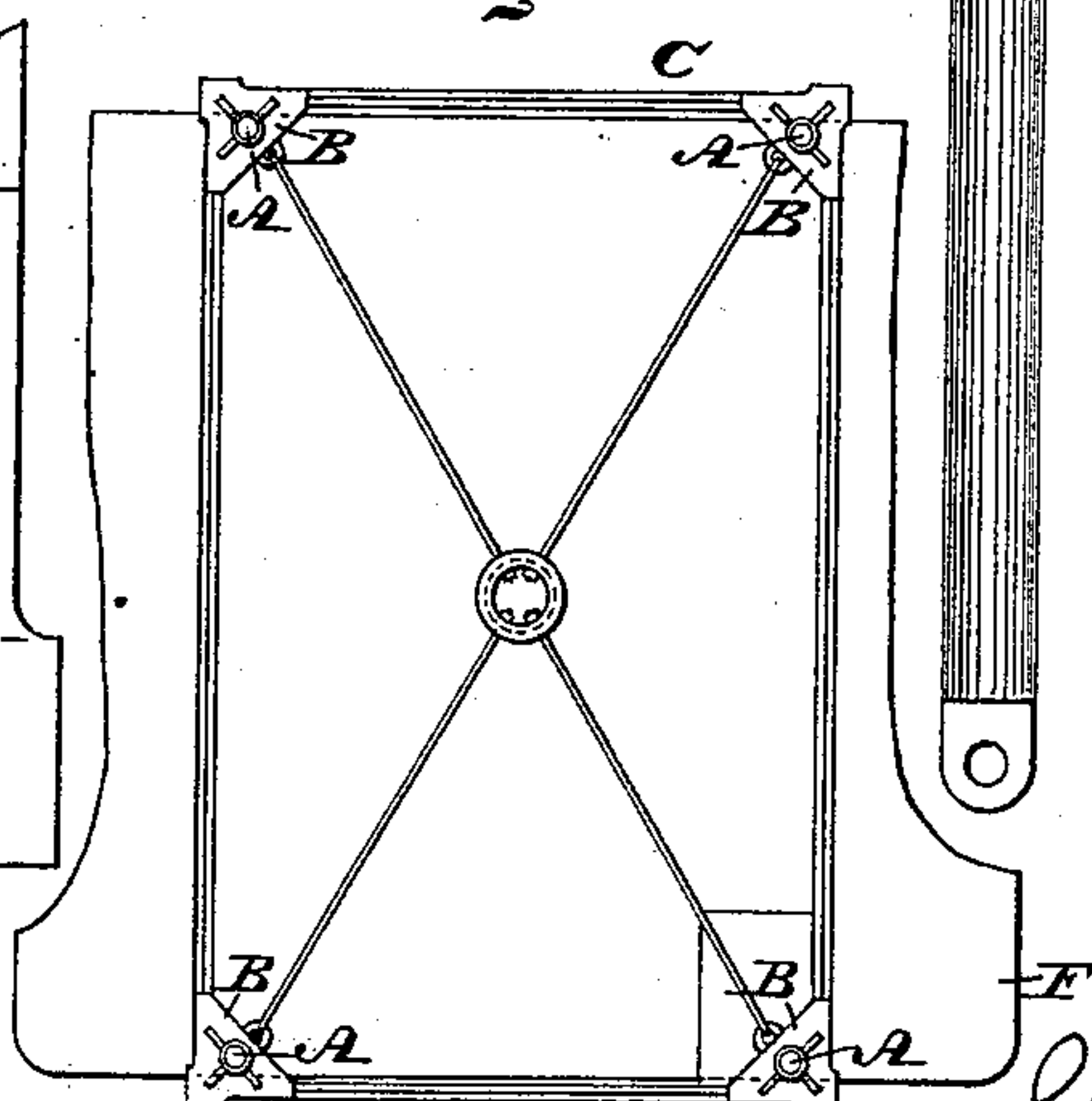
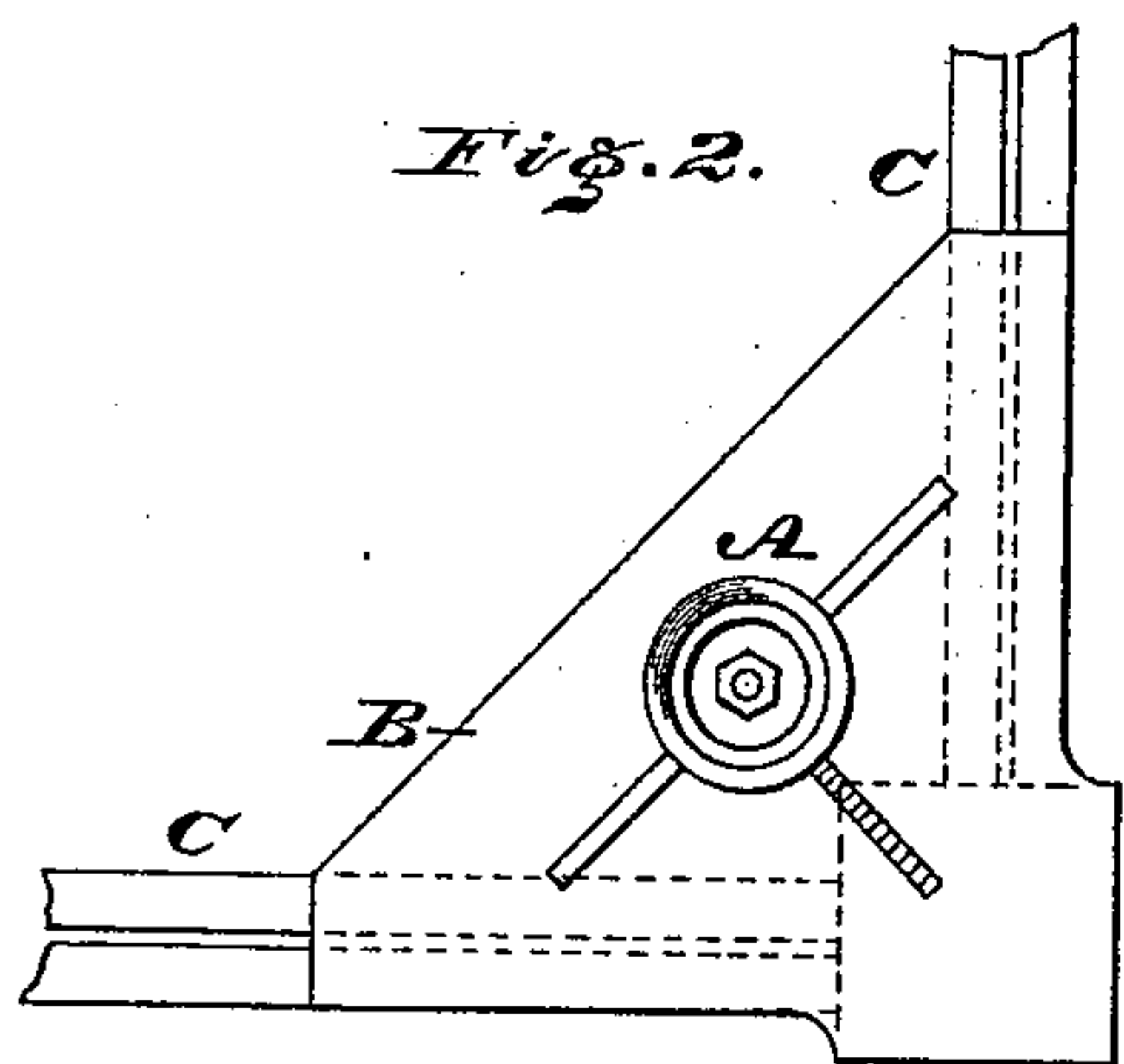


Fig. 4.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## ELEVATING DEVICE FOR COVERS OF GAS-PURIFIERS.

SPECIFICATION forming part of Letters Patent No. 348,137, dated August 24, 1886.

Application filed January 23, 1886. Serial No. 189,468. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE W. NOCK, 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 Elevating Devices for Covers of Gas-Purifiers, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 represents a side elevation of an elevating device for the cover of a gas-purifier embodying my invention, a portion of the purifier and carriage being shown. Fig. 2 represents a top view of a portion thereof. Fig. 3 represents a vertical section of a detached portion on an enlarged scale. Fig. 4 represents a top view on a reduced scale.

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

My invention consists of means for easily and quickly raising the cover of a gas-purifier, avoiding the laborious and slow operation heretofore practiced.

Referring to the drawings, A represents a cylinder, on whose exterior is a flange, B, which is cast with or attached to said cylinder and adapted to be secured to a suitable part of the carriage C of the gas-purifier.

D represents a piston, which is fitted within the cylinder A, and E represents the piston-rod, the latter having at its lower end shackles, E', by means of which said rod is connected with the cover F of a gas-purifier.

In practice I employ four cylinders, which are connected with the corners of the carriage C, and the piston-rods are attached to opposite sides of the cover F. In the cylinder is a port, G, to which is attached the pipe H of a force or pressure pump, J, the latter being mounted on one of the columns of the carriage C, said

pump being in communication with a supply of water or other fluid. It will be seen that when the purifier is to be opened fluid is simultaneously forced into the cylinders A, and the pressure thereof exerted on the pistons D, the effect of which is to raise the piston-rods E, thus uniformly elevating the cover of the purifier, said result, as is evident, being accomplished in a rapid and easy manner. The carriage, with the cover, the pistons, and cylinders, and the pump thereon, may now be moved away on the tracks or support of the carriage, and the cover F thus cleared of the purifier, so that the interior of the latter is accessible for any purposes requiring the same.

The elevating devices are applicable to an overhead carriage as well as to the floor-carriage shown in the drawings.

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

1. In gas-purifying apparatus, the carriage C, in combination with the cover F, having attached to its corners the piston-rods E, the cylinders A, connected with said carriage C, and means, substantially as described, for operating the pistons, substantially as and for the purpose set forth.

2. A gas purifier and a carriage, in combination with a fluid-receiving cylinder connected with said carriage and pumping and pressure mechanism, said cylinder being provided with a piston which is connected with the cover of the purifier, whereby said cover may be elevated, substantially as described.

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Witnesses:

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