

No. 627,890.

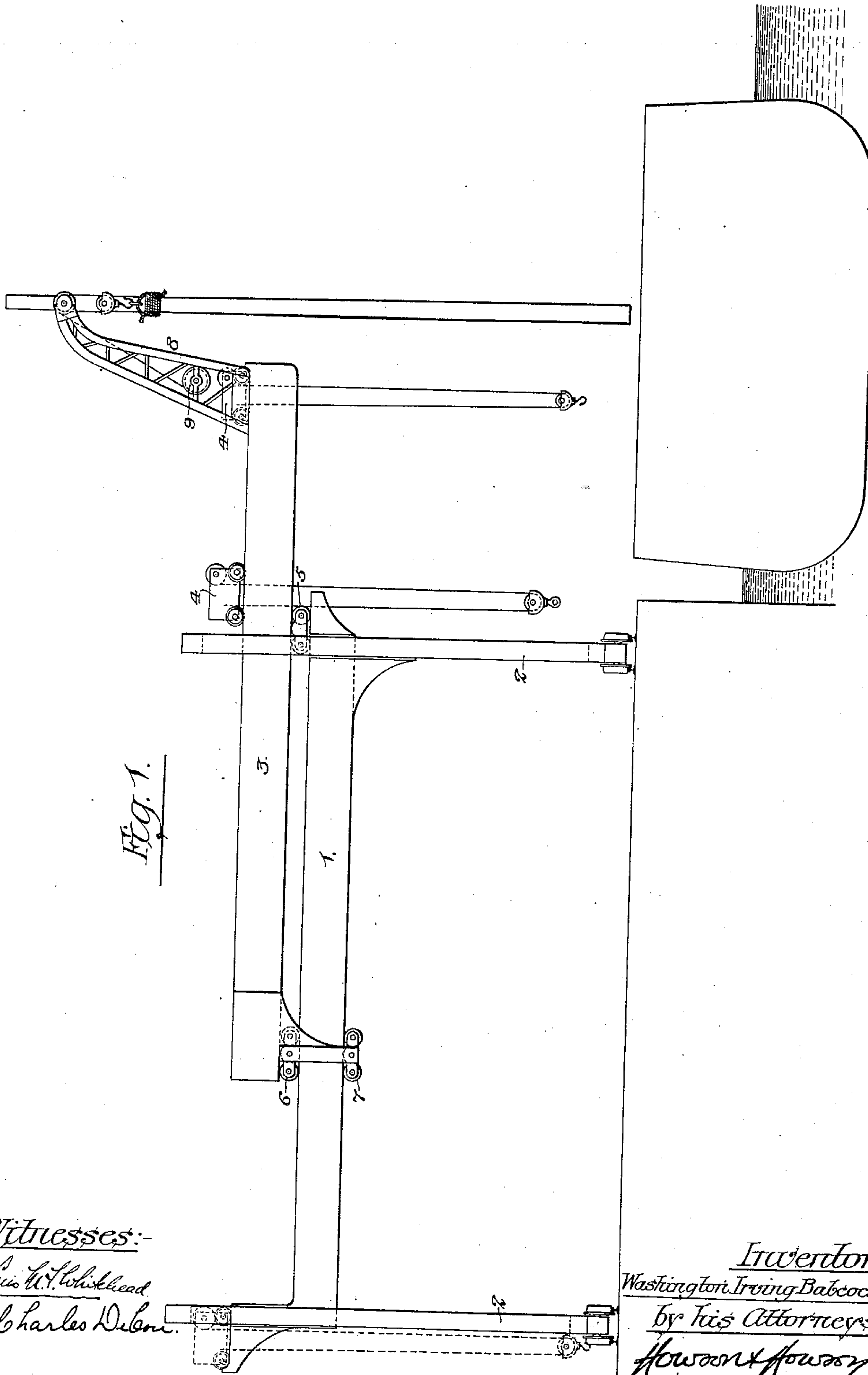
W. I. BABCOCK.
CRANE.

Patented June 27, 1899.

(No Model.)

(Application filed Oct. 14, 1898.)

2 Sheets—Sheet 1.



Witnesses:-

Wm. H. L. Whipple

Charles Deane

Inventor:-

Washington Irving Babcock

by his Attorneys:-

Howson & Howson

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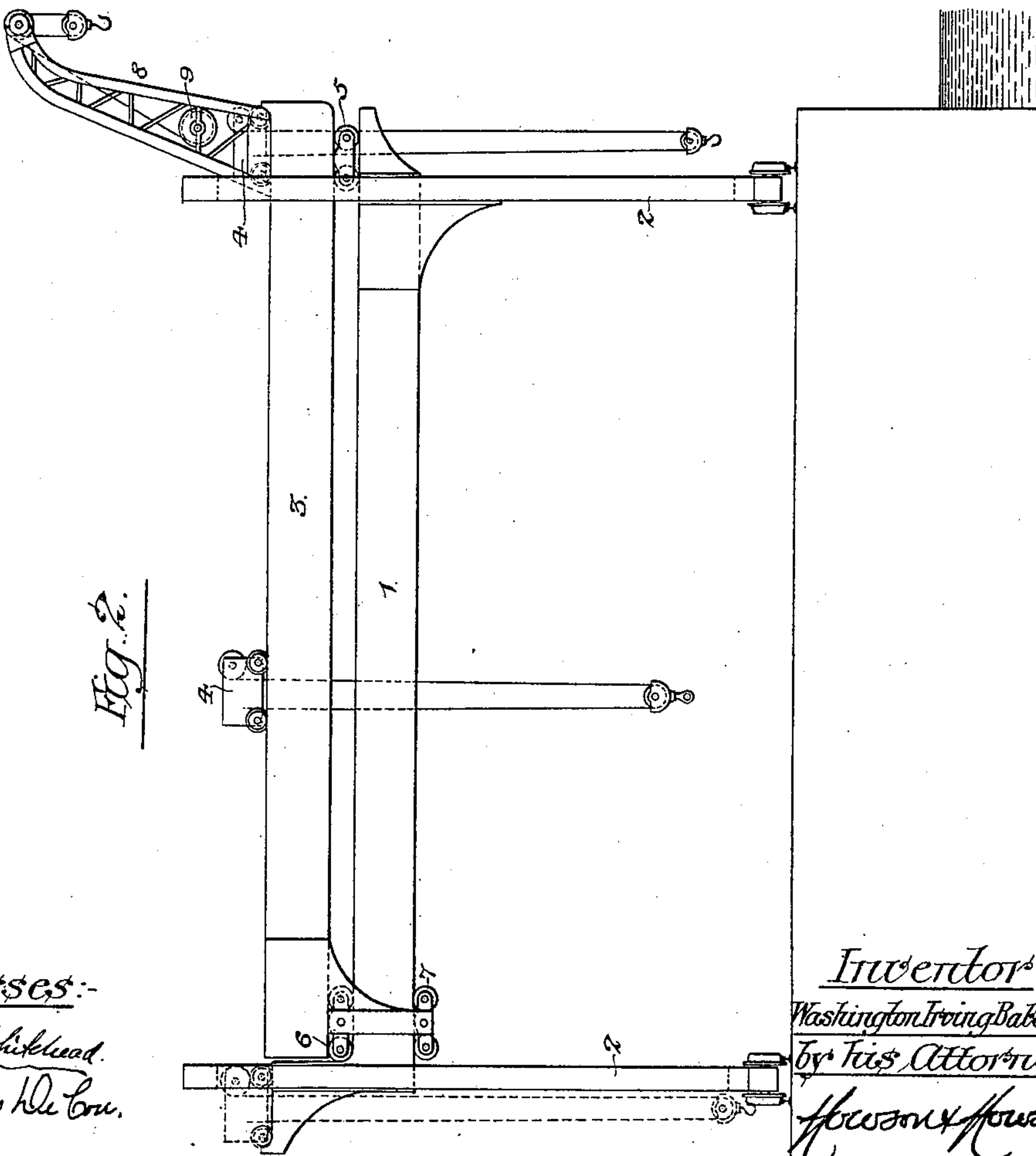
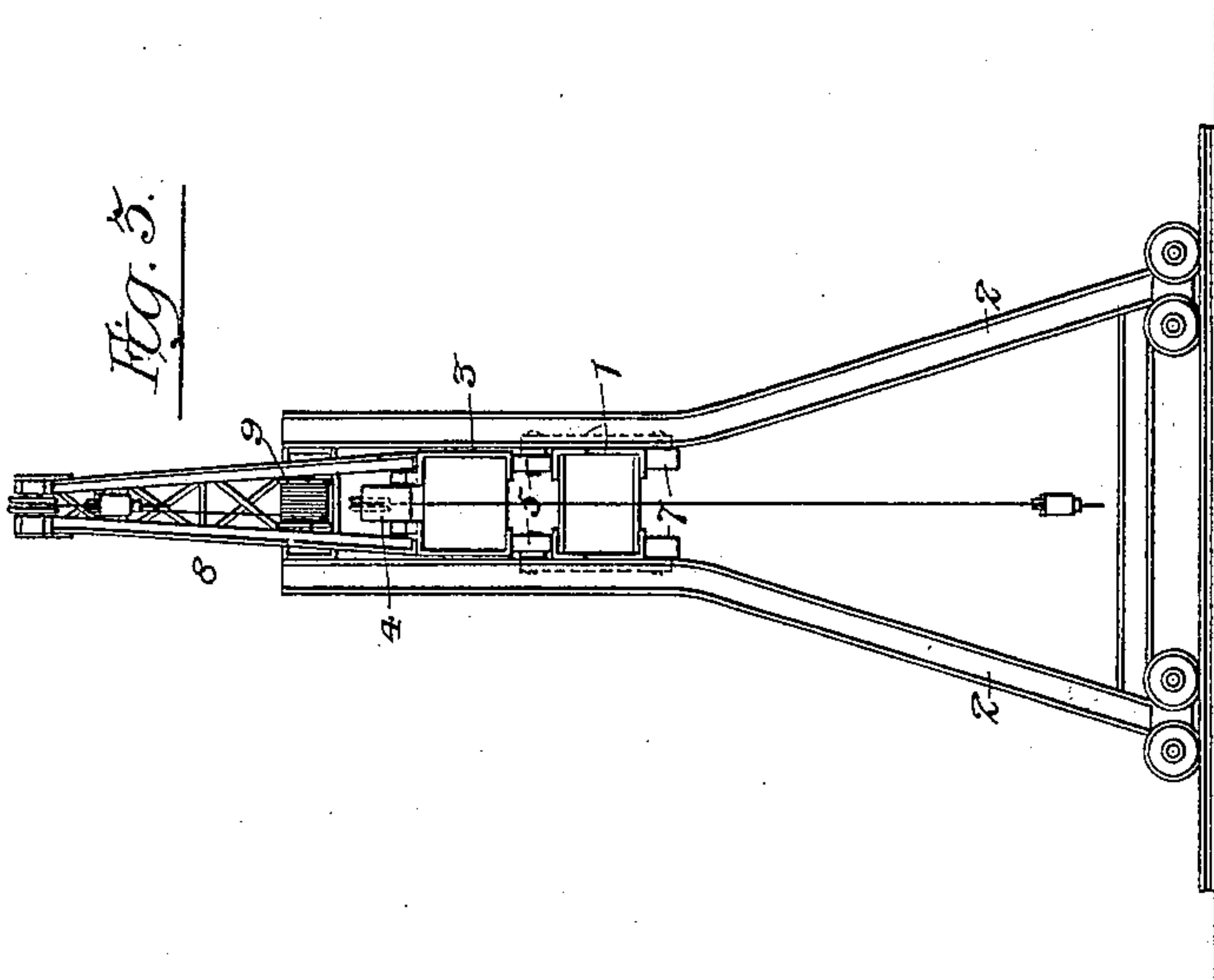
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2 Sheets—Sheet 2.



Witnesses:-

Louis M. S. Whithead.

Charles H. Cro.

Inventor:-

Washington Irving Babcock.

By His Attorneys:

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UNITED STATES PATENT OFFICE.

WASHINGTON IRVING BABCOCK, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE
WELLMAN-SEAVER ENGINEERING COMPANY, OF CLEVELAND, OHIO.

CRANE.

SPECIFICATION forming part of Letters Patent No. 627,890, dated June 27, 1899.

Application filed October 14, 1898. Serial No. 693,513. (No model.)

To all whom it may concern:

Be it known that I, WASHINGTON IRVING BABCOCK, a citizen of the United States, and a resident of Chicago, Illinois, have invented certain Improvements in Cranes, of which the following is a specification.

My invention consists of a certain improvement in the wharf-crane for which application for Letters Patent of the United States was filed by John W. Seaver and Samuel T. Wellman on the 21st day of July, 1898, Serial No. 686,522, the object of my improvement being to increase the range of lift of the structure therein set forth without detracting from any other of its valuable features. This object I attain in the manner hereinafter set forth, reference being had to the accompanying drawings, in which—

Figure 1 is a side view of a wharf-crane of the character set forth in said application with my improvement applied thereto, the boom of the crane being shown partly extended. Fig. 2 is a similar view showing the boom contracted to the full extent, and Fig. 3 is a front view of the crane.

The crane forming the subject of the before-mentioned invention of John W. Seaver and Samuel T. Wellman consists of a girder 1, supported at each end by a frame or legs 2 and carrying a sliding boom 3, on which are mounted, so as to be free to travel throughout the length of the same, one or more trolleys 4, each having suitable hoisting mechanism, the end frames or legs 2 of the crane being mounted upon wheeled trucks and the boom running upon rollers 5 at the front end of the girder 1 and carrying at its inner end rollers 6 and 7, running, respectively, upon the upper and lower flanges of the beams constituting the girder 1, so as to prevent tipping or tilting of the boom when the same is run out.

In order to increase the range of the crane, I mount upon the front end of the boom 3 a derrick 8, consisting of opposite frames or legs rigidly secured at their lower ends to the beams constituting the boom, the legs of the derrick being by preference flared or forked at the lower end, thus forming separated supporting members, so that the trolley 4 can be run between the same out to the ex-

treme end of the boom, as shown in Figs. 1 and 2, the upper portions of said legs or frames of the derrick being suitably braced, so as to impart to the structure the desired strength and rigidity. The derrick may be provided with special hoisting mechanism 9, or the tackle of the derrick may be operated by one of the trolleys 4 if the same is suitably anchored to the derrick-frame or boom 3.

By mounting the derrick upon the outer end of the boom I very materially increase the range of lift of the crane, so that it can be used for purposes for which as originally designed it was not adapted—as, for instance, for handling the masts of vessels, as shown in Fig. 1, or for other work requiring a high lift, the mounting of the derrick on the sliding boom of the crane enabling the same to be used at any point within the range of action of the crane and the presence of the derrick interfering in no way with the ordinary uses of the boom.

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

1. A crane having a hollow sliding boom which is capable of being projected and retracted, a hoisting-trolley running on the top of said boom and having a hoisting-chain depending through the same, and an upwardly-projecting derrick located at the outer end of the boom and forked or flared at the lower end to form separated supporting members, between which the trolley can pass, substantially as specified.

2. A crane having a sliding boom which is capable of being projected and retracted, a hoisting-trolley running on said boom, and an upwardly-projecting derrick, located at the outer end of the boom and having a hoisting device, independent of the trolley, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WASHINGTON IRVING BABCOCK.

Witnesses:

B. W. WELLS,
HENRY PENTON.