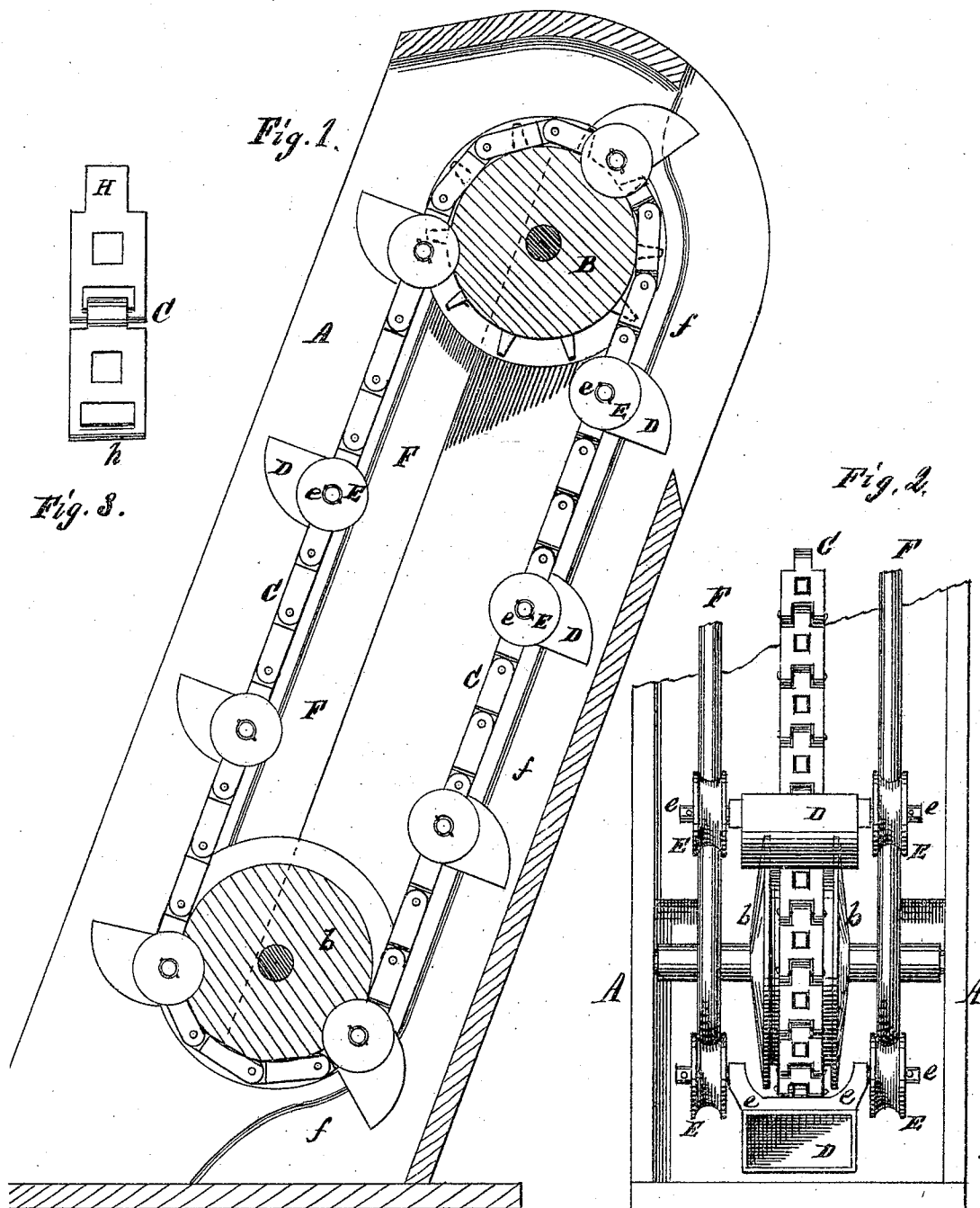


GILBERT B. LOWE,

Imp^a Elevator.

117789

PATENTED AUG 8 1871



Witnesses.

A. Allgier
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Inventor.

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UNITED STATES PATENT OFFICE.

GILBERT B. LOWE, OF JAMESVILLE, NEW YORK.

IMPROVEMENT IN ELEVATORS.

Specification forming part of Letters Patent No. 117,789, dated August 8, 1871.

To all whom it may concern:

Be it known that I, GILBERT B. LOWE, of Jamesville, in the county of Onondaga and State of New York, have invented a new and useful Improvement in Elevators; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a sectional side view of my improved elevator, and Fig. 2 is a front view of the lower part thereof. Fig. 3 shows a modification of a detail.

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

In the accompanying drawing, A is the casing, B is the driving-wheel, and *b* the lower or guide-wheel. C is the chain-belt, D are the buckets, and E rollers or pulleys for supporting the chain and buckets. In place of the ordinary leather or flexible belt I use a chain-belt, C, which is driven by a sprocket or rag-wheel, B. This chain C is made of links that are pivoted together, and the buckets D riveted thereto at regular intervals. To guide the buckets and relieve the chain from sag or friction a cross-head or axle, *e*, is fastened to the chain at each bucket, and its ends provided with rollers or wheels E E that travel on ribs or guides F and *f*, the ascending rollers traveling

on the front guides F F, and the descending rollers on rear guides *f f*. The chain is made of malleable cast-iron links, so as to be strong and light. These links can be cast with tongues or projections H and bars *h*, as shown in Fig. 3, and fastened together by bending the tongue around the bar, and in this manner dispense with the work of drilling for the pivots to fasten the links together. In constructing the sprocket-wheel B and lower wheel *d* they can be made with open-work peripheries, so that in elevating coarse material lumps cannot lodge between the chain and the part of the wheel on which it treads. By these means the friction of the belt in the legs of the elevator is avoided, and the rapid wearing out of belts for elevating lime, sand, and other material, is obviated.

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

In connection with the elevating-buckets D D, the chain-belt C, driving-wheels B *b*, guide-rollers E E, and ribs or tracks F *f*, all constructed and operating substantially as and for the purpose described.

The above specification of my invention signed by me this 17th day of April, 1871.

Witnesses GILBERT B. LOWE.

A. ALLGEAR,
F. A. MORLEY.