

S. G. L. Morrow.

Excavator.

N^o 15,813.

Patented Sept. 30, 1856.

Fig. 1

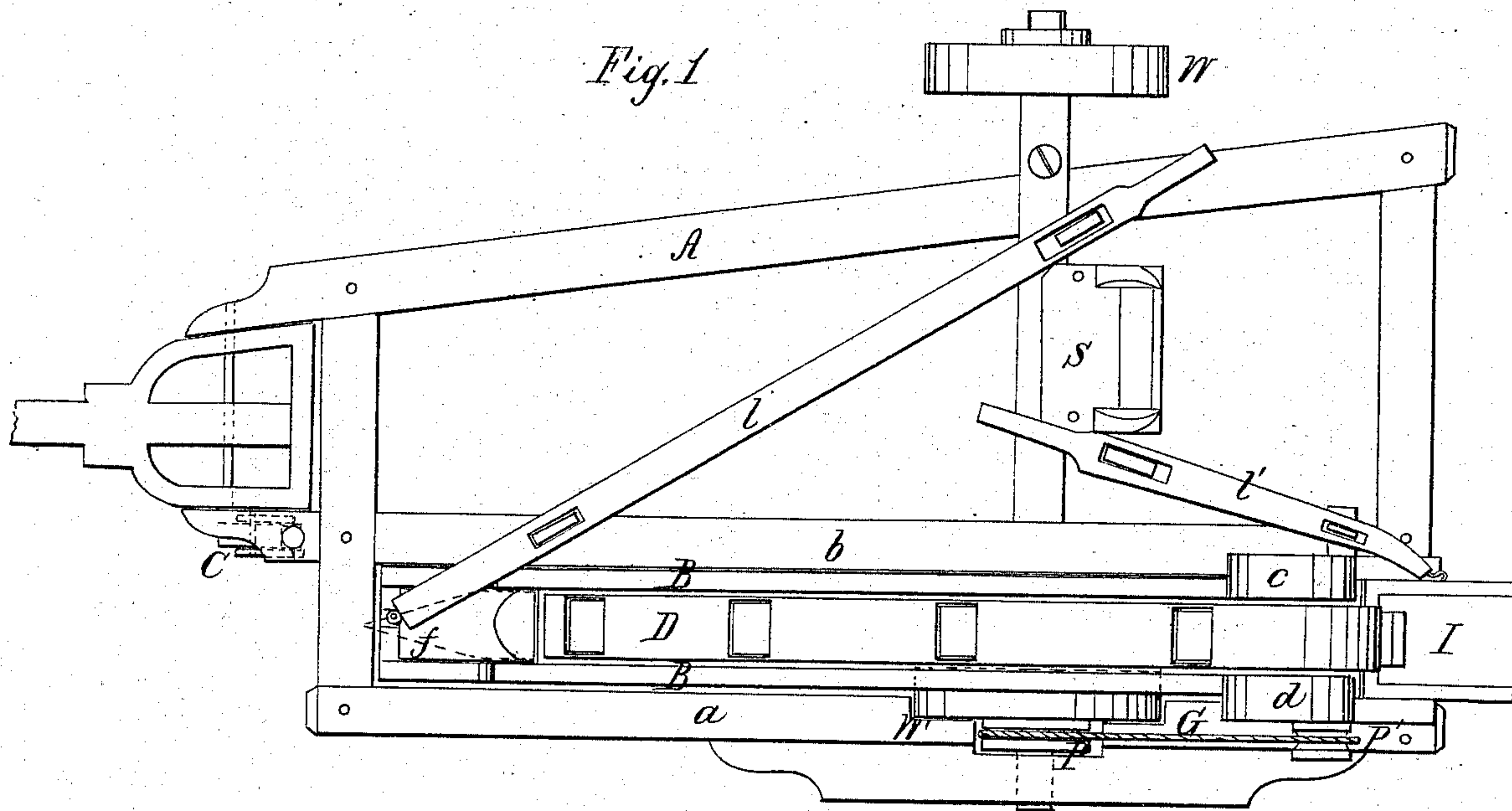
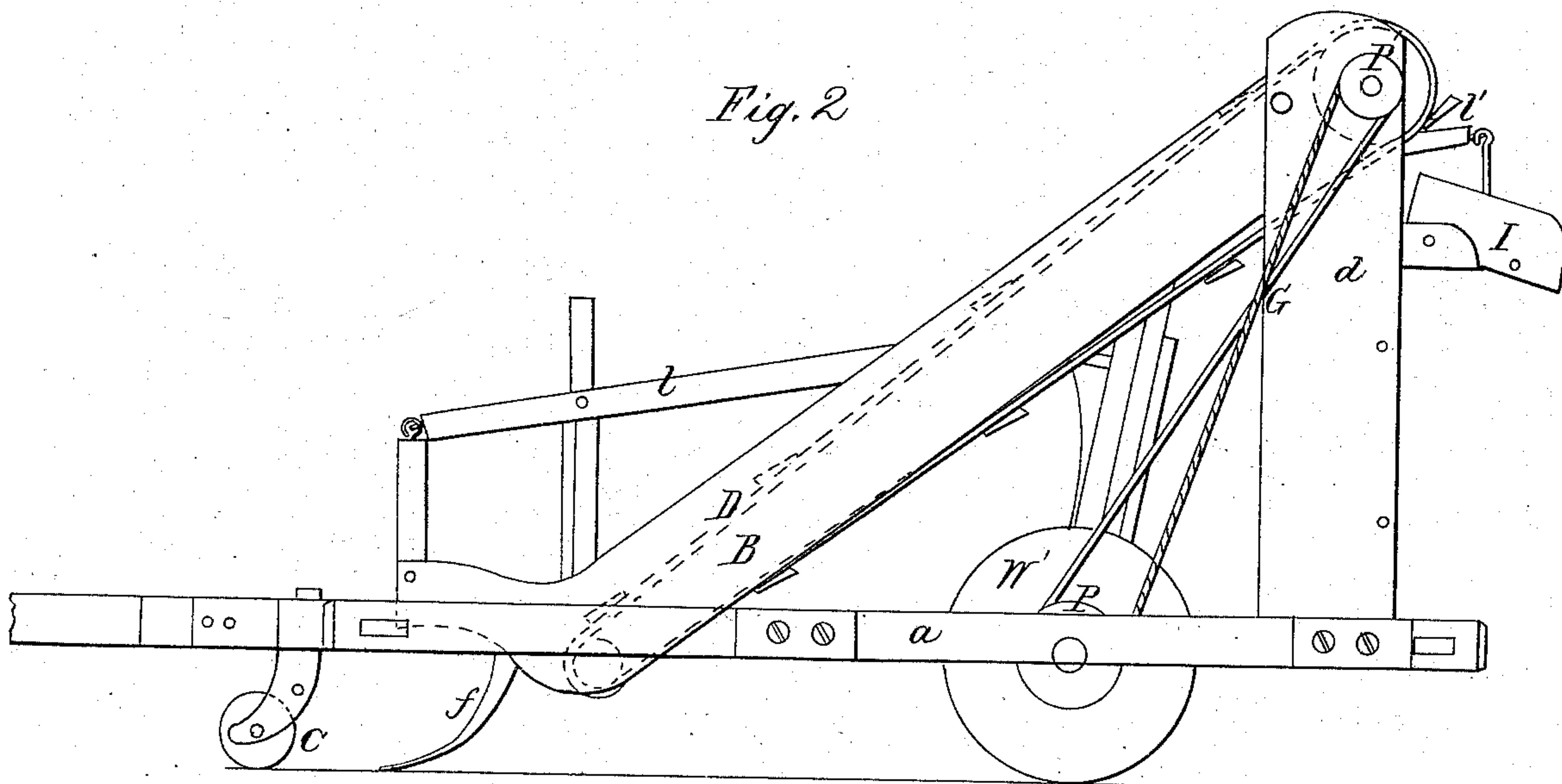


Fig. 2



UNITED STATES PATENT OFFICE.

S. G. L. MORROW, OF LINN, MISSOURI.

EXCAVATOR.

Specification of Letters Patent No. 15,813, dated September 30, 1856.

To all whom it may concern:

Be it known that I, S. G. L. MORROW, of Linn, in the county of Osage and State of Missouri, have invented a new and useful Improvement in Excavating-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, forming part of this specification, in which—

Figure 1 is a plan and Fig. 2 is a side elevation, of the machine.

Similar characters of reference in the several figures denote the same part of the machine.

The nature of my invention consists in constructing the machine with the cutter and elevator held by a lever running across the frame, and within reach of the driver, so as to be raised and lowered at pleasure, and in combining therewith a tilting chute under the head of the elevator, held and operated by a lever, running to the driver's seat, said chute discharging the product of excavation into a cart behind the machine.

In the drawing A is a horizontal frame, supported on wheels W W' and caster wheel C. Between the longitudinal pieces *a* and *b*, and uprights *c* and *d* is the conveyer frame B, armed at bottom with the cutter *f*. This frame is held at top by the uprights *c d* and has its lower end connected with the lever *l* running to the right of the driver's seat S.

Under the head of the conveyer D is the tilting chute I, held by lever *l'* running to the left of the seat S.

The conveyer is moved by means of the band G connecting pulleys P, P'. 40

This machine is driven forward, causing the cutter to excavate the ground; the product thereof being lifted by the buckets of the elevator is discharged into the chute I, whence it reaches the cart attached to the rear of the machine: the tilting of the chute being performed by the driver by reason of lever connection *l'*. With lever *l* the driver regulates the depth of cutting, and lifts the cutter altogether above the surface of the earth. 45 50

The arrangement of operating levers *l l'*, places the several parts of the machine more under the control of the driver, than other machines of like character. 55

Disclaiming the several parts separately, I claim—

The arrangement as described of the cutter, elevator, and discharge chute, with the levers *l l'*, regulating the same. 60

In testimony whereof, I have hereunto signed my name before two subscribing witnesses.

S. G. L. MORROW.

Witnesses:

GEO. PATTEN,

JOHN S. HOLLINGSHEAD.