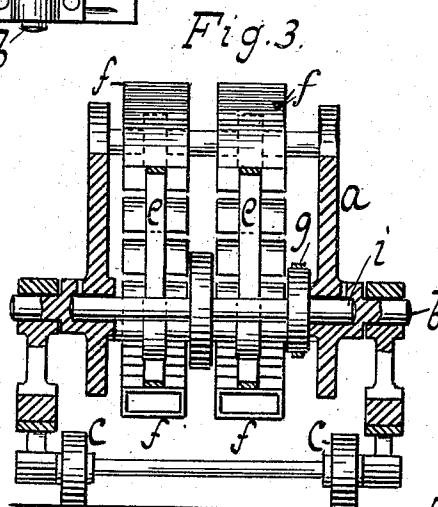
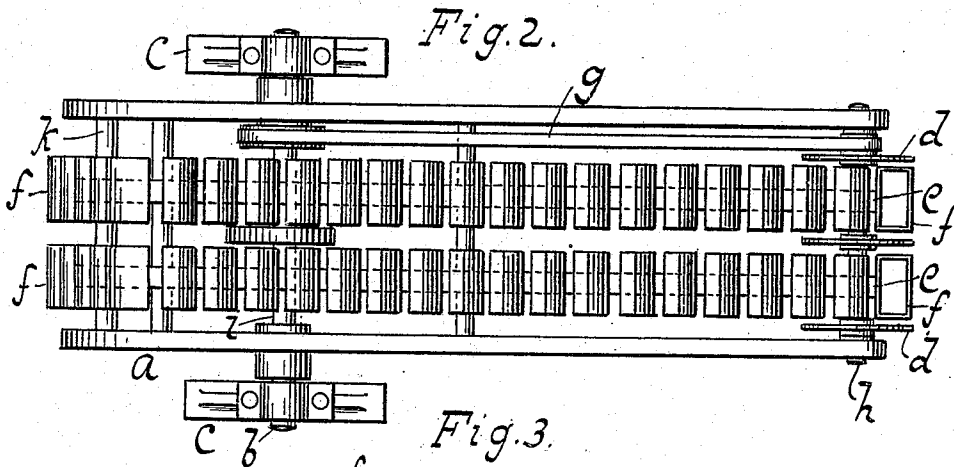
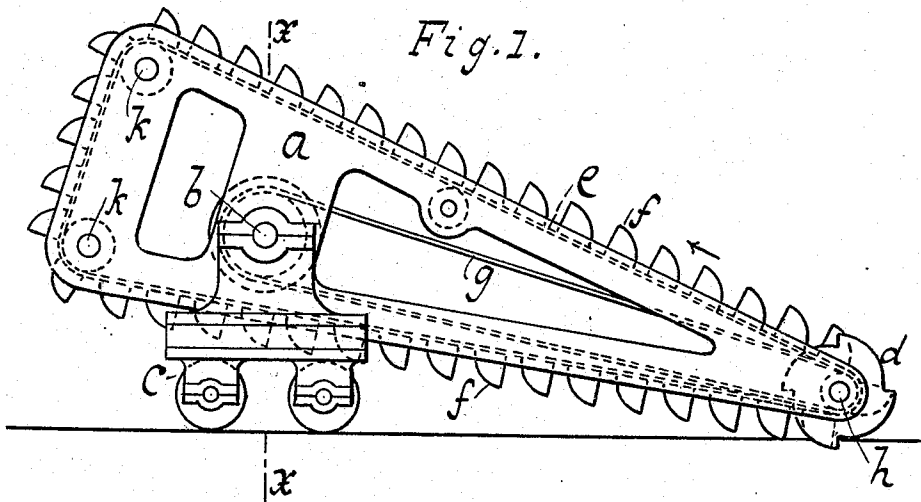


T. D. GLEESON.
EXCAVATING AND TRENCHING MACHINE.
APPLICATION FILED DEC. 3, 1908.

937,066.

Patented Oct. 19, 1909.



WITNESSES:

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TIMOTHY D. GLEESON, OF NEW YORK, N. Y.

EXCAVATING AND TRENCHING MACHINE.

937,066.

Specification of Letters Patent.

Patented Oct. 19, 1909.

Application filed December 3, 1908. Serial No. 465,775.

To all whom it may concern:

Be it known that I, TIMOTHY D. GLEESON, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented new and useful Improvements in Excavating and Trenching Machines, of which the following is a specification.

This invention relates to improvements in excavating and trenching machines in which cutters are mounted in proximity to buckets or scoops and earth or other matter loosened by the cutters can be taken up and carried off by the buckets.

This invention is set forth in the following specification and claim and illustrated in the annexed drawing in which:—

Figure 1 shows a side elevation of an excavating and trenching machine embodying this invention. Fig. 2 is a plan view of Fig. 1. Fig. 3 is a section along *x x* Fig. 2.

In this drawing is shown a frame *a* having gudgeons *b* by which the frame can tilt or pivot on a truck *c*. The frame has rotary cutters *d* and the frame when tilted can lower the cutters to contact with the ground or can raise the cutters for the truck to be moved or shifted in position. The cutters are supported on a shaft *h* about which also run a belt or belts *e* carrying buckets *f*.

The shaft *h* is rotated by belt *g* running about a pulley on rotary shaft *i* concentric with the gudgeons *b*. The front of the belt *e* with the buckets is led over idlers *k*. The rotary shaft *i* or a pulley fixed thereon can receive motion from a suitable source of power to drive belts *e g* with shaft *h* and actuate the knives *d* and the buckets.

As the gudgeons *b* and rotary shaft *i* are concentric the frame can be tilted without affecting the tension of belt *g*.

What I claim is:—

A device of the kind described comprising a frame with cutters and buckets placed on a common shaft with and alongside the cutters to remove the material loosened by such cutters, said frame having gudgeons to swingingly support the frame a rotary shaft mounted concentrically with the gudgeons, and pulleys secured to the shaft, one of the pulleys having a driving belt for the shaft of the cutters and buckets, and another pulley being adapted to connect with a source of power.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

TIMOTHY D. GLEESON.

Witnesses:

CHRISTIAN ALMSTAEDT,
W. C. HAUFF.