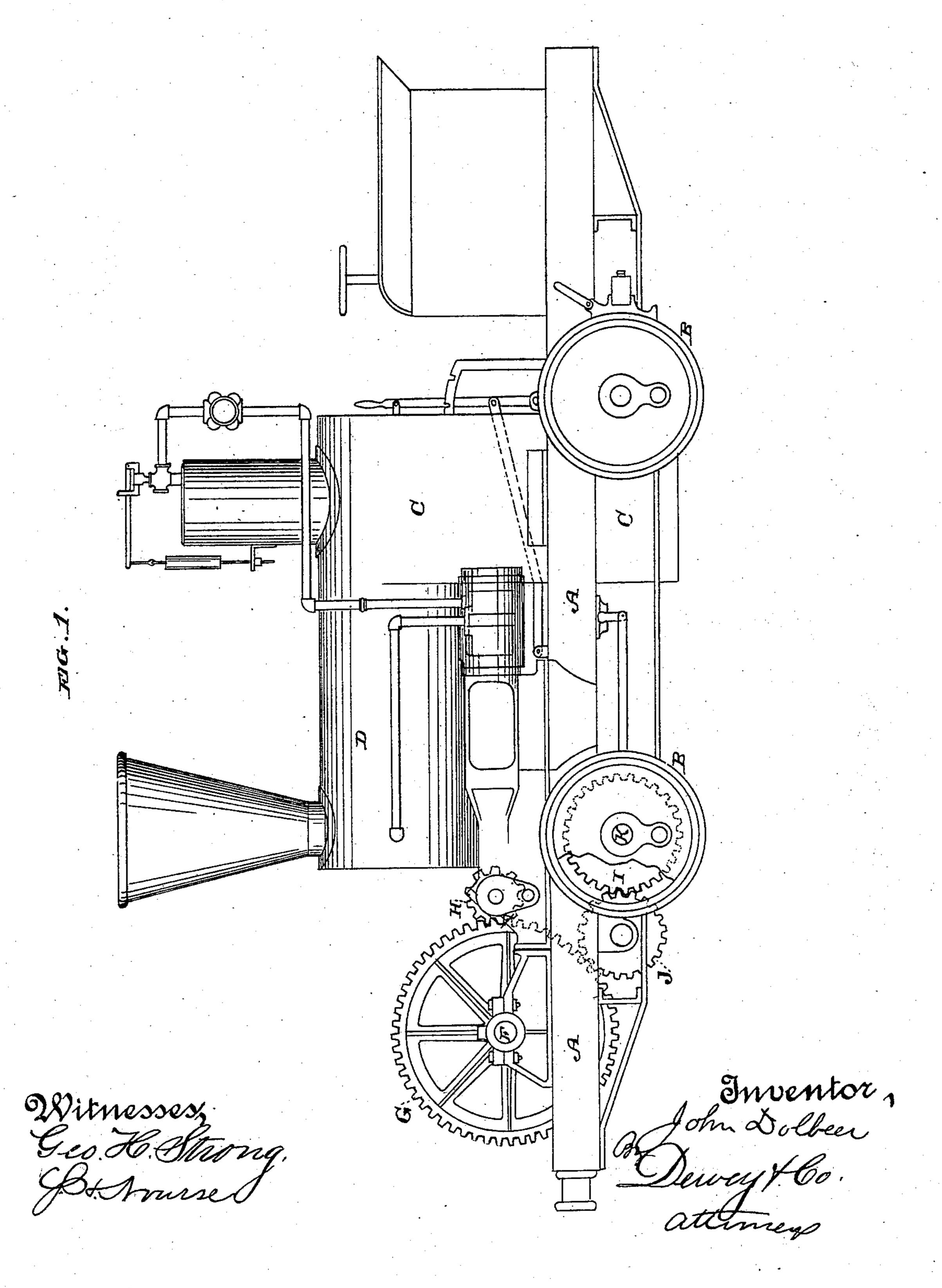
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No. 290,756.

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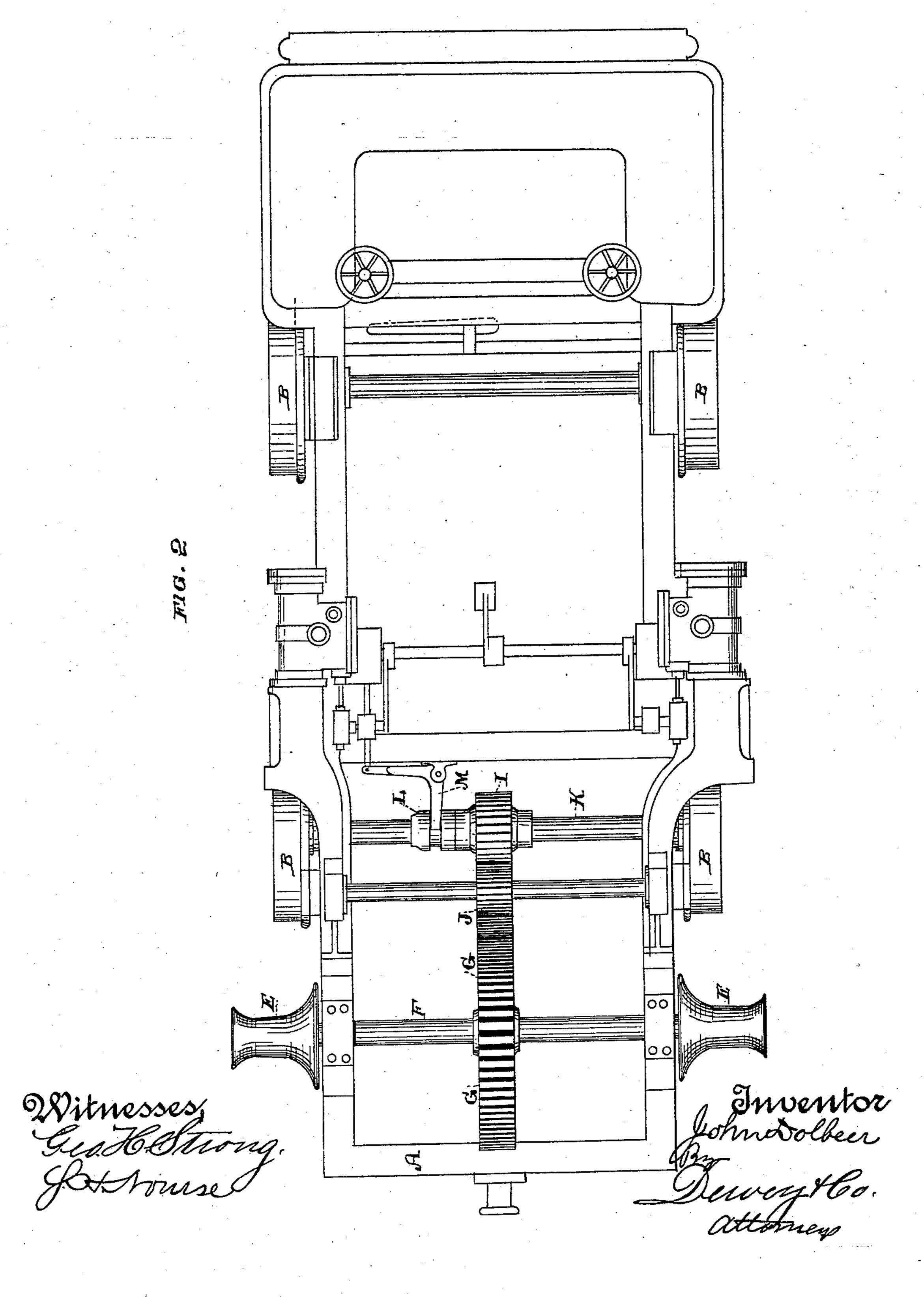


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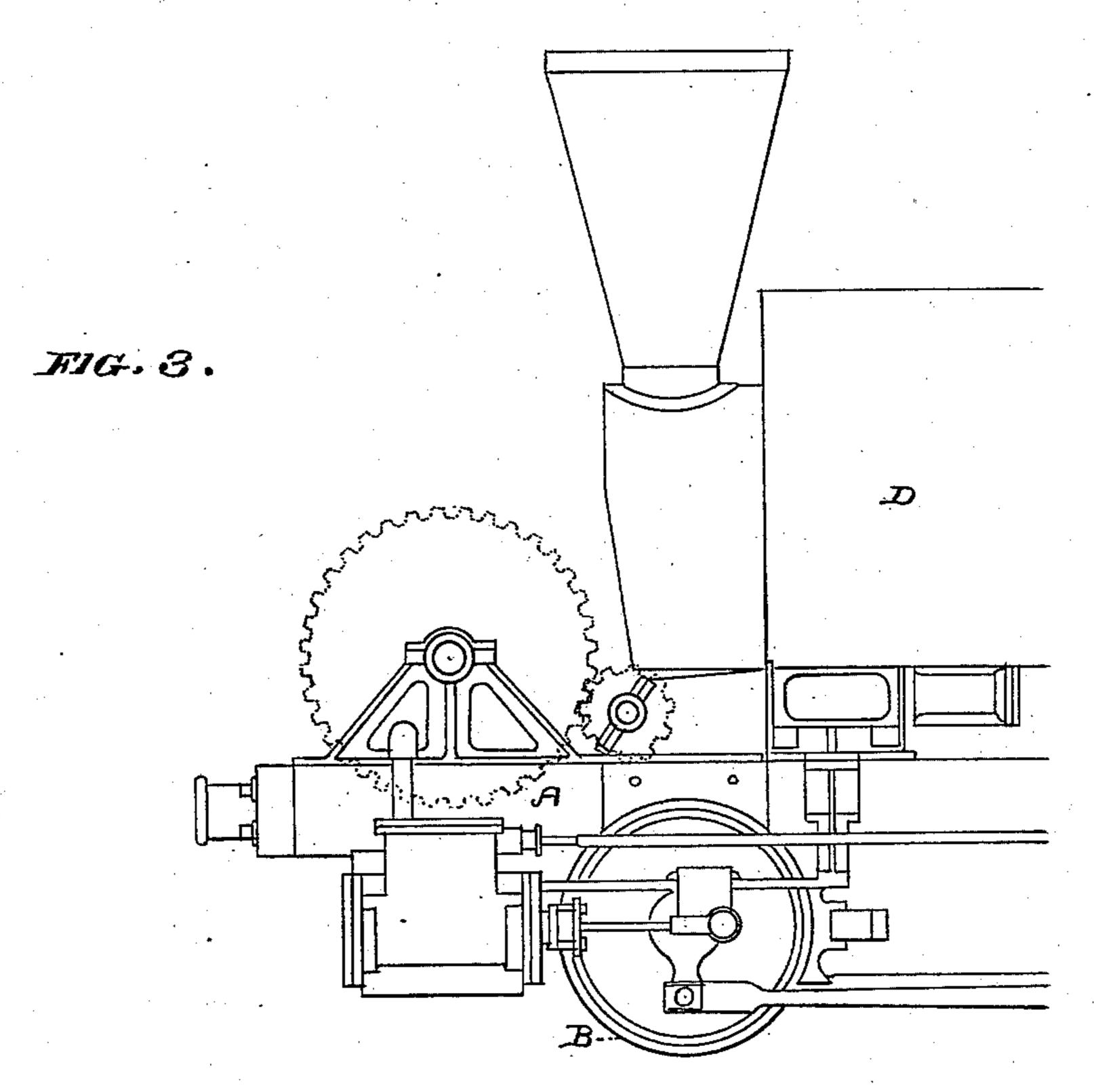
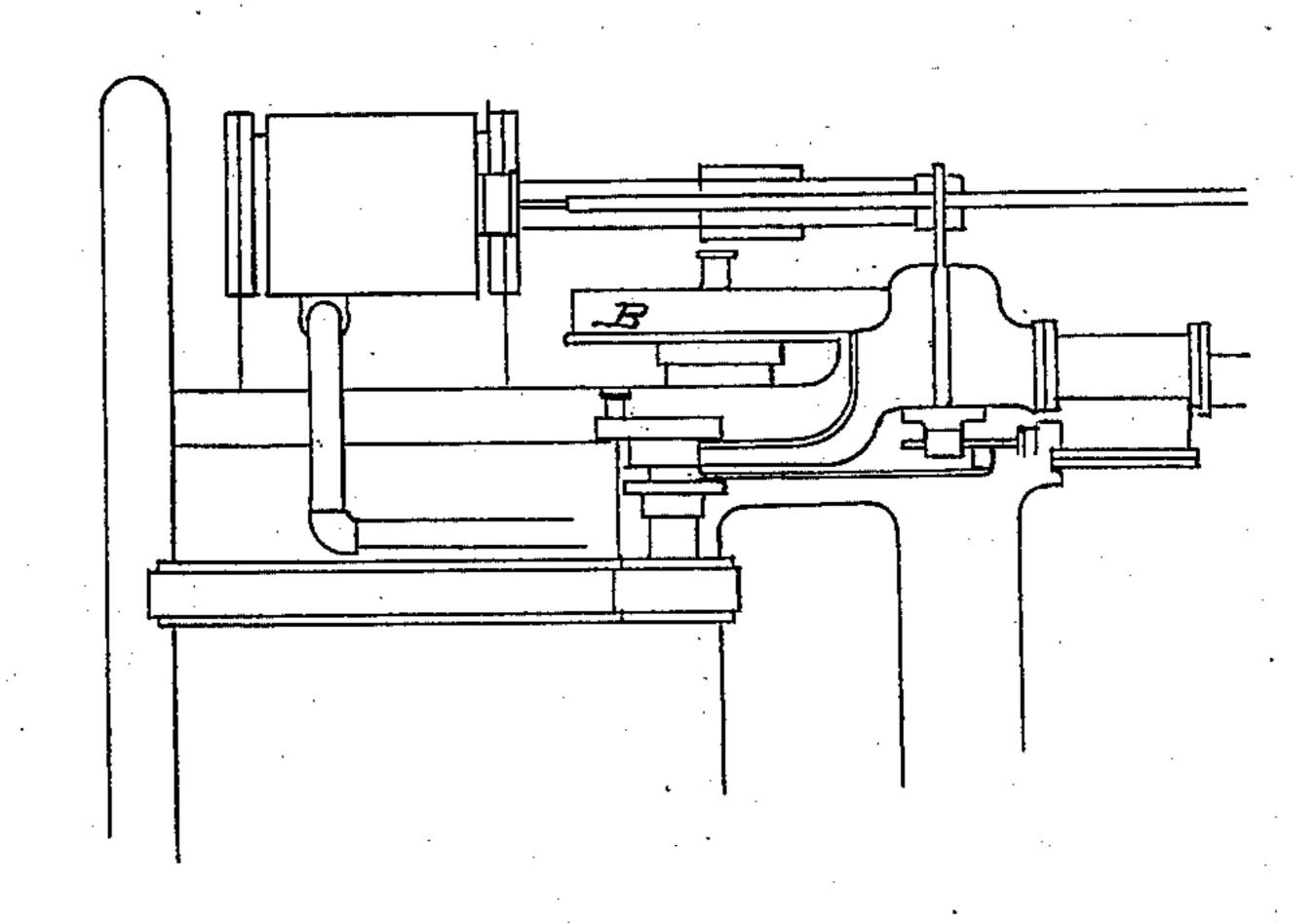


FIG.4



Wixwesses, Gestletting. John Dolbeer , Dewey 860.

# United States Patent Office.

JOHN DOLBEER, OF SAN FRANCISCO, CALIFORNIA.

#### LOGGING-LOCOMOTIVE.

SPECIFICATION forming part of Letters Patent No. 290,756, dated December 25, 1883.

Application filed September 3, 1883. (No model.)

To all whom it may concern:

Be it known that I, John Dolbeer, of the city and county of San Francisco, and State of California, have invented an Improvement in Logging-Locomotives; and I hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to a novel apparatus in which I produce a traction and a rope-wind-to ing or hauling engine in one mechanism, which

I term a "logging-locomotive."

It consists of an engine and boiler mounted upon a suitable frame supported upon wheels, which are adapted to run upon a track, and a gipsy or winding-drum mounted upon the forward part of the same frame, and a suitable mechanism by which power may be applied to drive the wheels and move the locomotive along the track, or to actuate the winding apparatus, as will be more fully explained by reference to the accompanying drawings, in which—

Figure 1 is a side elevation of my combined apparatus, showing an intermediate gearing. Fig. 2 is a plan of a portion of the apparatus. Fig. 3 shows the mechanism with a secondary engine in place of the gear. Fig. 4 is a plan

view of a part of the same.

In mountainous heavily-wooded localities it 30 is often difficult to construct logging-roads or to bring the necessary apparatus to the proper points to haul the logs into position and load them to be transported to the mill, or to unload them at destination. This is a serious 35 obstacle in places like the timber region of the Pacific coast, where the logs are often eight feet or more in diameter. It has been found more economical to construct a temporary railway-line from the mill to the point where 40 the logs are cut, and in order to provide a convenient mechanism for moving the logs and loading them, and then transporting them over the railway to the mill, I combine a locomotive and gipsy, as hereinafter described.

A is the frame of a locomotive, mounted upon bearing and driving wheels B, which are

fitted to run upon a track.

C is the boiler, and D is the cylinder in which the steam operates upon a piston to 50 drive the engine.

In Fig. 1 I have shown the engine connected

with the gipsy and also with the drivingwheels by intermediate gearing, and in Fig. 3 it is shown connected with the gipsy only, while the driving-wheels are operated by a 55

separate engine.

E is a gipsy or winding-drum, which is fixed to a horizontal shaft, F, turning in strong boxes, which are fixed upon the front portion of the engine-frame, so that the gipsy projects 60 to one side of the frame in a convenient posi-

tion to receive the rope.

G is a strong gear-wheel fixed to the gipsyshaft, and H is a pinion secured to the engineshaft and engaging the teeth of the gear-wheel, 65 so as to drive it when the engine is in motion. A gear-wheel, I, turns loosely upon the forward axle, K, of the driving-wheels, and an intermediate pinion, J, engages with this wheel and also with the gear-wheel G upon 70 the gipsy-shaft. It will be seen that when the engine is in motion the gipsy will be rotated, and also the gears I and J, the former turning loosely upon the axle K. A clutch couplingsleeve, L, is fitted to move upon a feather upon 75 the axle, so that it may be moved up to engage with the other portion of the coupling, which is upon the hub of the gear-wheel I, and when so engaged the shaft K and the driving-wheels will be caused to rotate and the en- 80 gine converted into a locomotive; but when the gipsy is to be used this coupling is disengaged and the locomotive remains stationary. When running upon downgrades, which frequently occurs, the clutch is disengaged and 85 the engine and machinery will then remain stationary, while the wheels revolve and the train moves by gravitation. This clutch mechanism may be operated by a lever, M, or in any suitable manner.

In some cases I have found it preferable to employ a separate engine or engines to connect directly with the driving-wheels, as in Fig. 3, to move the locomotive without the intervention of the gear-wheels, which are then 95 simply used in connection with the gipsy, as before described. By this construction I am enabled to use my locomotive to haul a train of cars suitable for carrying logs to a point near the timber. The locomotive, being brought to a convenint point, is disconnected and fixed by brakes or chocks, and the rope, after pass-

ing around suitably-placed snatch-blocks, so that the pull from the gipsy will be nearly in a direct line, is secured to the log, which is often inconveniently or inaccessibly located, and it is hauled to the side of the track and loaded upon the car. When the load is complete, the rope may be thrown off the gipsy and the locomotive connected, when it will be ready to haul the load to its destination.

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

Patent, is—

1. A combined logging engine and locomotive, consisting of a gipsy and an engine and boiler mounted upon a frame, which is supported upon driving-wheels, in combination with intermediate gearing or mechanism, by which the locomotive or the gipsy may be run

independently, substantially as herein described.

2. A combined locomotive and logging engine, consisting of an engine and boiler and a gipsy mounted upon a frame, which is supported upon driving and bearing wheels, in combination with intermediate connecting 25 gears or mechanism, by which both may be driven, and a clutch or other mechanism, and an operating-lever, by which the driving-wheels of the locomotive may be connected or disconnected, substantially asherein described. 30

In witness wherof I have hereunto set my

hand.

JOHN DOLBEER.

Witnesses:

S. H. Nourse, H. C. Lee.