R. M. MYERS.

ROAD BUILDING MACHINE.

APPLICATION FILED JULY 15, 1916.

1,233,107.

Patented July 10, 1917.

2 SHEETS—SHEET 1.

Fig. 1.

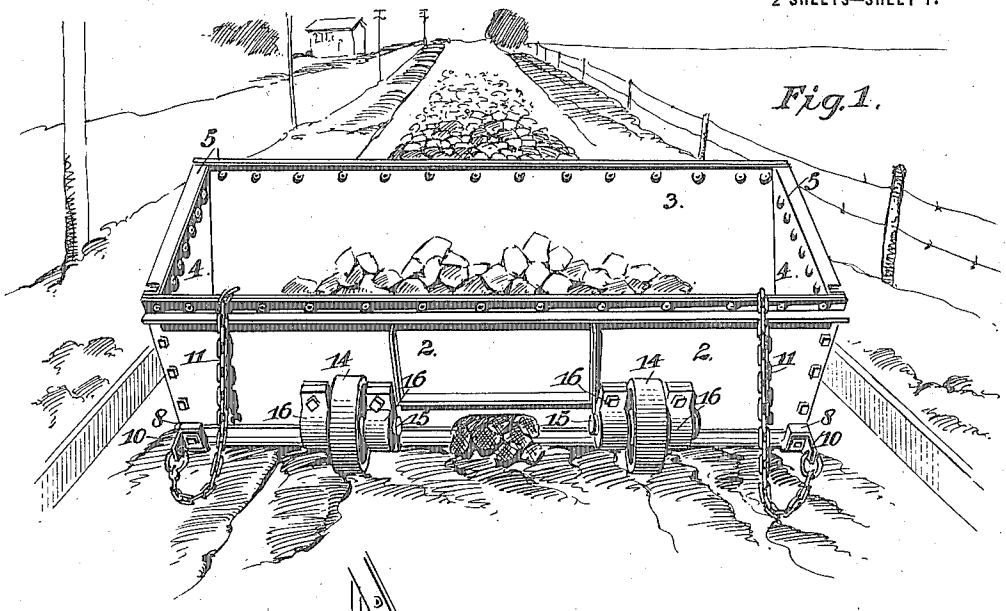
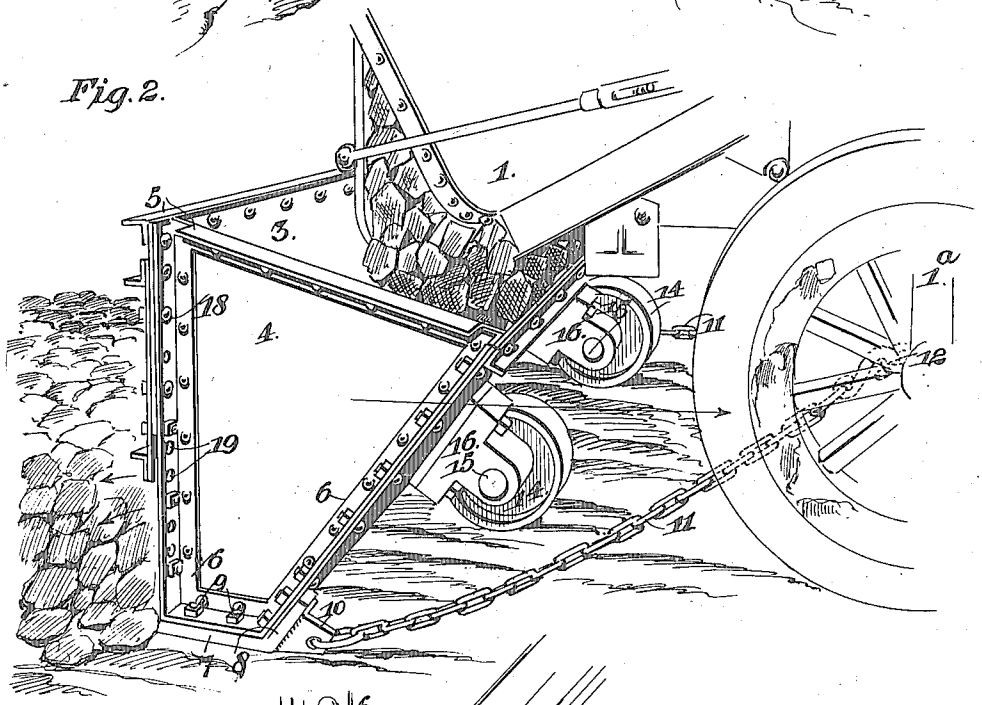


Fig. 2.



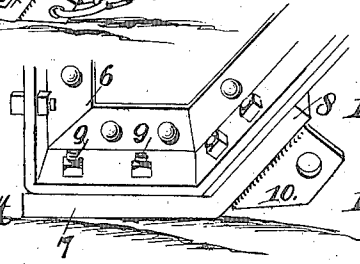


Fig. 3.

WITNESSES

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2 SHEETS—SHEET 2.

Fig. 4.

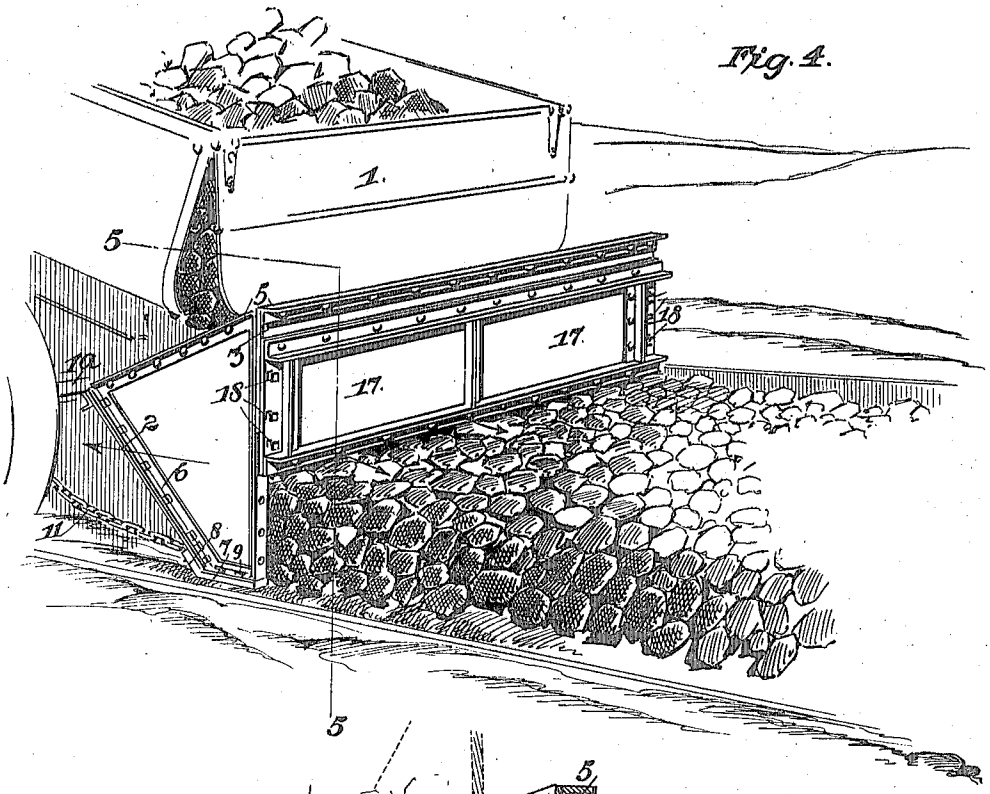
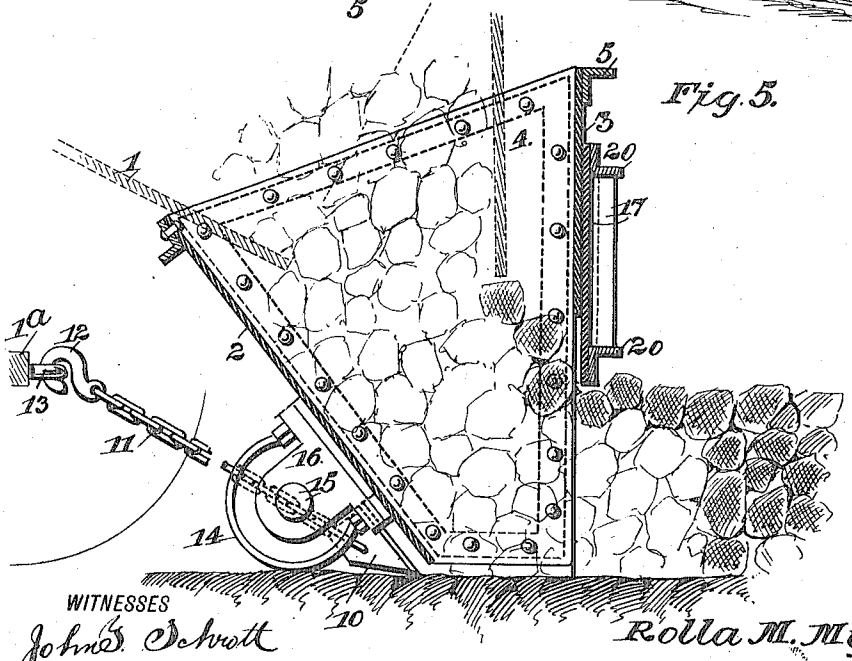


Fig. 5.



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ROAD-BUILDING MACHINE.

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To all whom it may concern:

Be it known that I, ROLLA M. MYERS, a citizen of the United States, and a resident of Attica, in the county of Seneca and State of Ohio, have invented an Improvement in Road-Building Machines, of which the following is a specification.

My invention is an improvement in road building machines, and has for its object to provide a machine of the character specified, especially adapted for distributing and leveling stone, slag or gravel on roadways, wherein the distributer is adapted to be drawn behind a truck and to receive material from the truck, and to distribute a uniform layer of material on the roadway as the truck moves along.

In the drawings:

Figure 1 is a front view of the improved machine.

Fig. 2 is a perspective view from the front.

Fig. 3 is an enlarged detail of a portion of one end showing the sliding shoe construction.

Fig. 4 is a perspective view from the rear.

Fig. 5 is a section on the line 5—5 of Fig. 4.

The present embodiment of the invention is shown in connection with a truck indicated at 1, the machine being drawn behind the truck. This machine comprises a hopper shaped casing, consisting of front and rear walls 2 and 3 and end walls 4, the said walls 2, 3 and 4 being of suitable metal and reinforced at their top by angle plates 5. Similar angle plates 6 are arranged at the ends, between the ends and the front, and rear walls, and these plates extend across the lower ends of the sides, as shown in Figs. 2 and 3. Shoes consisting of portions 7 and 8 arranged at an obtuse angle with respect to each other are secured to the ends of the casing at the bottom thereof, the portions 7 of the said shoes extending across the ends of the bottom.

These shoes 7—8 are secured to the angle plates 6 and to the front wall 2 by means of bolts and nuts 9, and an angle clip 10 has one of its portions secured to the portion 8 of the shoe, the other portion of the clip having an opening for engagement by one end of a chain 11. These chains 11 have hooks 12 at their forward ends, and the said hooks are adapted to engage eyes 13 on the rear axle of the truck 1.

Wheels 14 are arranged on the front wall, each wheel being on a shaft 15, which is held in sectional bearing brackets 16 secured to the front wall, the wheels being at opposite sides of the center of the said front wall. Approximately one-half of the rear wall of the casing is omitted, namely the lower portion of the said wall, and the opening so formed together with the open bottom forms the outlet through which the stone passes onto the roadway. A door or gate 17 is provided for partially closing the opening in the rear wall, and the said door or gate is secured to the angle plate 6 and the rear wall, by means of bolts and nuts 18. A series of openings 19 is provided in the angle plate 6 of the front wall and in the wall, to permit the position of the door to be varied, and by engaging the bolts and nuts 18 with different openings, the width of the discharge opening for the hopper casing can be varied. The door is preferably reinforced with angle plates 20, at the top ends, bottom and at the center. The shoes 7—8 serve as sliding shoes upon which the casing with its load moves and the said shoes prevent the casing sinking in soft sand, for instance.

The operation of the device is as follows:

The hopper is placed on the roadway, as shown in Fig. 1 and the truck is backed up into position before it, as shown in Figs. 2 to 5. The chains 11 are connected with the eyes 12, and the end gate of truck is opened partially, as shown, to permit the material to flow into the hopper. The gate is already regulated to discharge the proper thickness of stone, and as the truck moves forward dragging with it the hopper, the stone in the hopper, because of the friction with the roadbed passes out at the rear of the hopper, and will be leveled by the lower edge of the gate. The distributer delivers the material at a uniform depth and width, and the ends of the hopper serve to gage the width of the material delivered.

The improved distributer may be used in any connection wherein it is desired to distribute a uniform layer of material, and it will handle slag or gravel as readily as stone.

I claim:

1. A road building machine comprising a hopper shaped container having front and rear walls diverging toward the open top of the container and having an open bottom,

wheels on the front wall near the bottom, a sliding shoe secured to each end of the container transversely of the bottom, the rear wall having a discharge opening the full length of the said wall and communicating with the open bottom, a gate adjustably mounted on the front wall for partially closing the discharge opening, and chains connected with the shoe and having hooks for engaging a truck for delivering material into the hopper.

2. A road building machine comprising a hopper shaped container having an open bottom and open at the top and adapted to be drawn behind a truck containing material delivering into the container, said container having a discharge opening in its rear wall communicating with the open bottom, means for regulating the height of the discharge opening, sliding shoes at the ends of the bottom of the hopper, and draft mechanism connected with the sliding shoes.

3. A road building machine comprising a container having an opening in its bottom and having a discharge opening in its rear wall communicating with the opening in its bottom, means for regulating the height of the discharge opening, sliding shoes at the ends of the bottom of the container, and draft mechanism connected with the shoes.

4. A road building machine comprising a container having an opening in its bottom and having a discharge opening in its rear wall communicating with the opening in its bottom, means for regulating the height of the discharge opening, and sliding shoes at the ends of the bottom of the container.

ROLLA M. MYERS.