

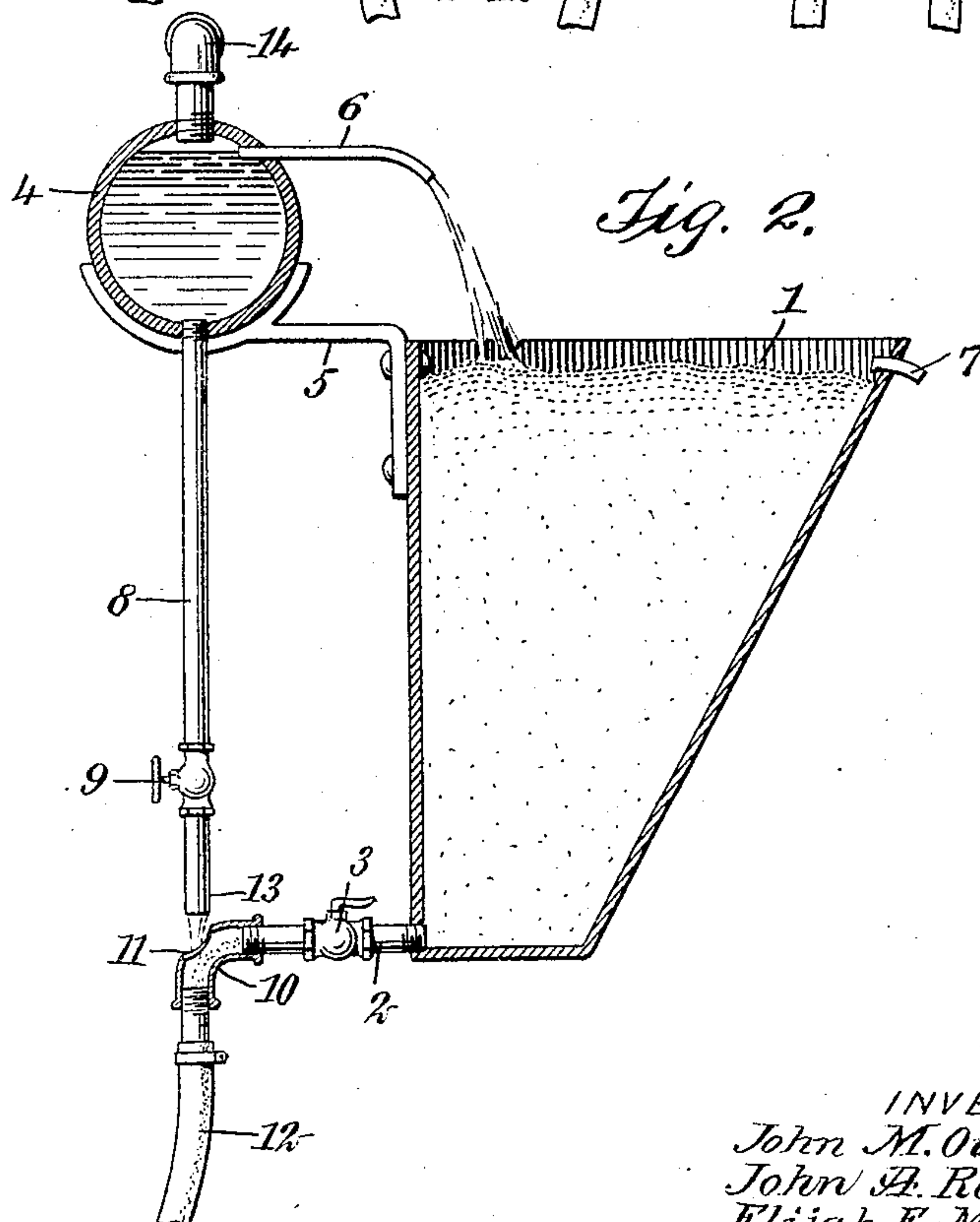
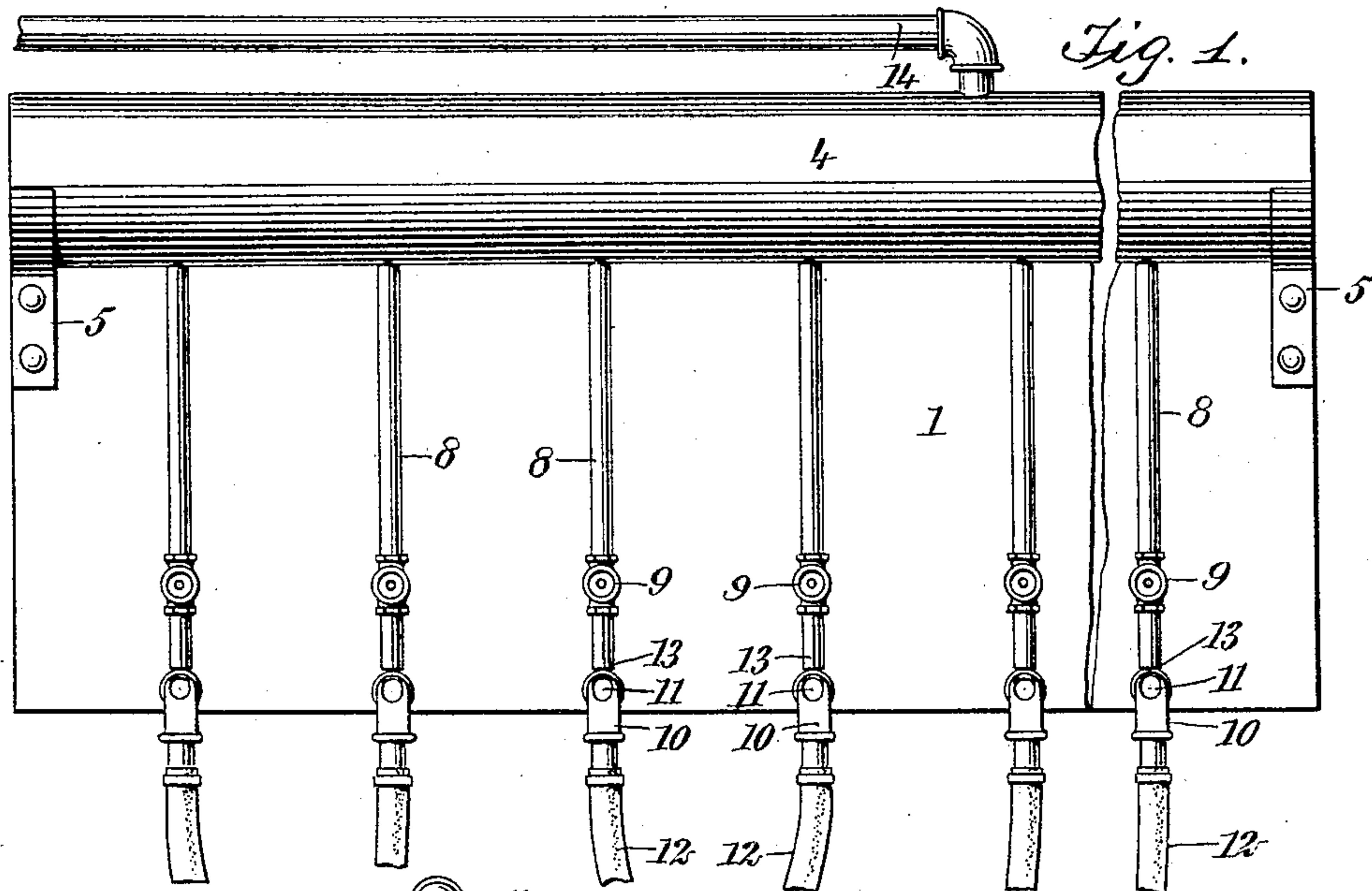
J. M. OWENS, J. A. ROWE & E. E. MITCHELL.

SAND FEED FOR STONE SAWING MACHINES.

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912,023.

Patented Feb. 9, 1909.



WITNESSES

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UNITED STATES PATENT OFFICE.

JOHN M. OWENS, OF OOLITIC, AND JOHN A. ROWE AND ELIJAH E. MITCHELL, OF BEDFORD,
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SAND-FEED FOR STONE-SAWING MACHINES.

No. 912,023.

Specification of Letters Patent.

Patented Feb. 9, 1909.

Application filed June 20, 1908. Serial No. 439,520.

To all whom it may concern:

Be it known that we, JOHN M. OWENS, a resident of Oolitic, in the county of Lawrence and State of Indiana, and JOHN A. ROWE and ELIJAH E. MITCHELL, residents of Bedford, in the county of Lawrence and State of Indiana, all citizens of the United States, have invented a new and Improved Sand-Feed for Stone-Sawing Machines, of which the following is a full, clear, and exact description.

Our invention relates to sand feeds and has for its object to provide a sand feed in which there is a tank disposed at a higher elevation than the sand box which is parallel therewith, there being a plurality of outlets for the tank and a plurality of outlets for the sand box, the outlets for the sand box having openings therein, above which are disposed the lower terminals of the outlets of the tank respectively, the tank having an overflow which leads into the sand box, and the sand box also being provided with an overflow, the outlets from the tank and from the box being commanded by valves.

In this specification we will describe the preferred form of our invention, but it will be understood that we do not limit ourselves thereto, as we consider ourselves entitled to all forms and embodiments of the invention which may fall within the scope of the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both figures, in which—

Figure 1 is an end elevation of the invention; and Fig. 2 is a transverse sectional view thereof.

By referring to the drawings, it will be seen that we provide a sand box 1, which tapers toward its bottom, in order that the sand disposed therein may be thrown toward the outlet 2, which is commanded by a valve 3. We also provide a tank 4 which is disposed longitudinally of the sand box 1, and which is supported by brackets 5, which are secured to the sand box. The tank 4 has an outlet 6 which has its outer terminal disposed over the sand box 1, and the sand box 1 has an overflow 7, which is adapted to lead to any desired receptacle. At the bottom of the tank 4 are disposed a plurality of out-

lets 8, which are commanded by valves 9. The outlet 2 of the sand box 1, has screwed thereto an elbow 10, which has an opening 11 at its top, hose 12 being secured to the elbow 10 in order that the sand may be led to the sawing machinery. The outlet 8 of the tank 4 has a terminal 13 which is disposed immediately above the opening 11 in the elbow 10 of the outlet 2 of the sand box 1. The tank 4 is supplied with water by means of a pipe 14.

In using our invention, the sand box 1 is filled with sand, and water is permitted to flow into the tank 4, and when it reaches the mouth of the outlet 6, the water will flow into the sand box 1 and will mix with the sand, which will permit the sand to flow freely through the outlet 2, when the latter is opened. However, at this period the valve 3 is closed, which prevents the sand from flowing through the outlet 2, and the valve 9 of the outlet 8 of the tank 4, is also closed. When the sawing machinery is to be operated, the hose 12 is disposed to lead the sand in the proper direction and when the machinery is to be started the valves 9 and 3 are opened to insure a proper mixture of the wet sand and water, the water flowing into the elbow 10 through the opening 11 therein, and the sand and water is led by the hose to the sawing machine.

Having thus described our invention, we claim as new and desire to secure by Letters Patent:

1. A sand feed which consists of a tank, a sand box, means to supply water to the sand box, an outlet for the tank, and an outlet for the sand box, the outlet for the tank being so disposed as to direct its water into an opening in the outlet from the sand box.

2. A sand feed which consists of a tank, a sand box, an outlet for the tank, an outlet for the sand box, the outlet for the tank being so disposed as to direct its water into an opening in the outlet for the sand box, a tank overflow which leads into the sand box, a sand box overflow, and valves in the tank and sand box outlets respectively.

3. A sand feed which consists of a sand box, means to supply water to the sand box, an outlet from the sand box which has an elbow therein, and a water supply pipe which has a terminal disposed over an opening in the said elbow.

4. A sand feed which consists of a tank, a

sand box tapering toward its bottom, means to supply water to the sand box, an outlet for the tank, an outlet for the bottom of the sand box, and an elbow in the said sand box
5 outlet, the outlet from the tank having a terminal disposed over an opening in the said elbow.

5. A sand feed which consists of a tank, a sand box tapering toward its bottom, an out-
10 let for the tank, an outlet near the bottom of the sand box, an elbow in the sand box outlet, the outlet from the tank having a terminal disposed over an opening in the said elbow, an overflow for the tank which leads
15 into the sand box, an overflow for the said box, and valves commanding respectively the outlets of the tank and of the sand box.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN M. OWENS.

Witnesses:

WALTER MURPHY,
WAYNE MITCHELL.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

JOHN A. ROWE.
ELIJAH E. MITCHELL.

Witnesses:

JAMES F. STEPHENSON,
WAYNE MITCHELL.