2 Sheets, Sheet. 1.

H. S. Lansdell.

Pump for R.R. Station.

No 52,721. Patented Feb 20. 1866.

Fig. 3.

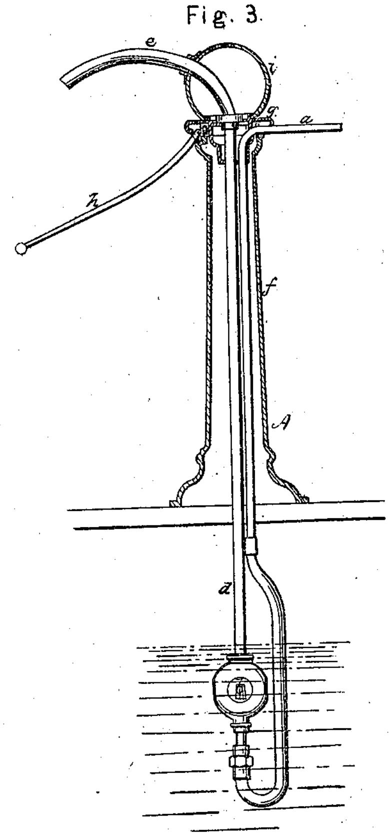


Fig. 1.

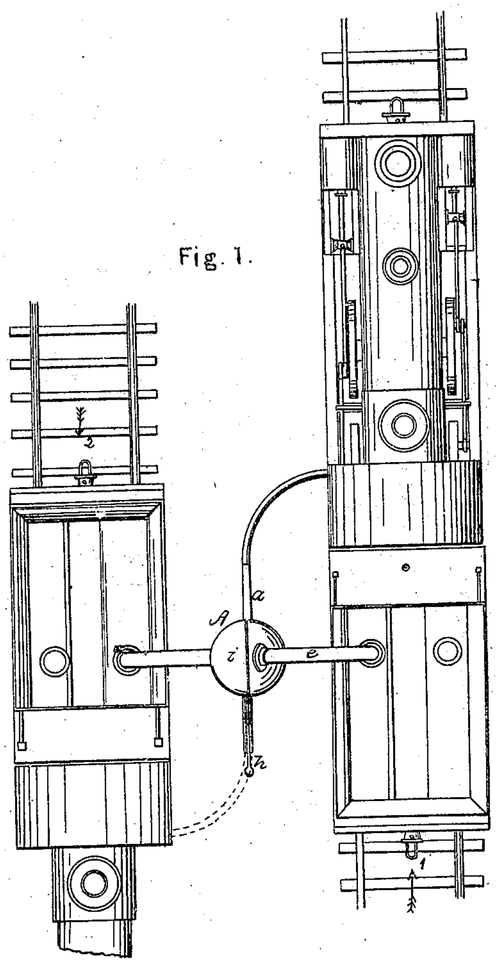
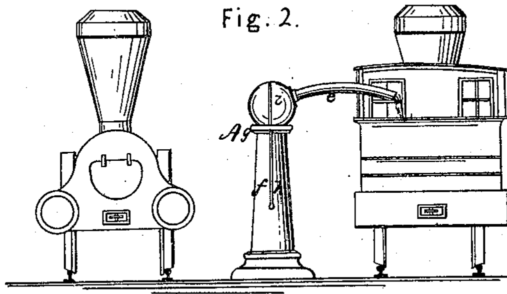


Fig. 2.



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2 Sheets.
Sheet. 2.

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Fig. 4.

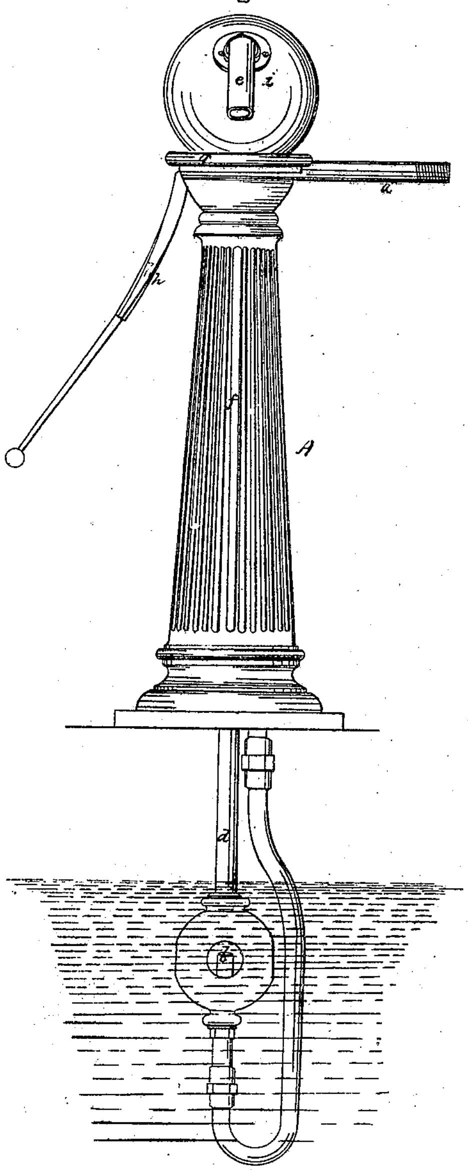
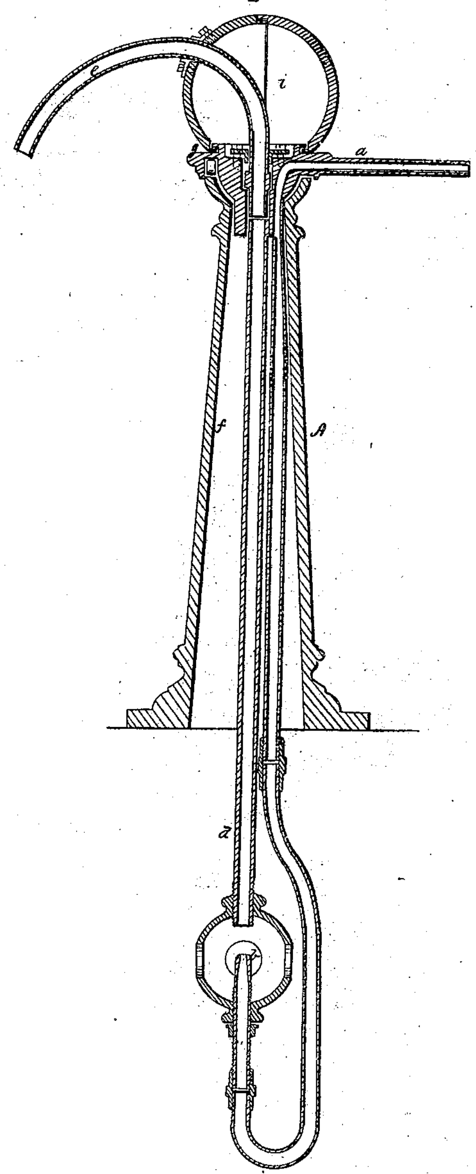


Fig. 5.



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UNITED STATES PATENT OFFICE.

HENRY S. LANSDELL, OF NEW YORK, N. Y.

IMPROVEMENT IN PUMPS FOR RAILROAD-STATIONS.

Specification forming part of Letters Patent No. **52,721**, dated February 20, 1866.

To all whom it may concern:

Be it known that I, HENRY S. LANSDELL, of the city, county, and State of New York, have invented a new and Improved Railroad Water-Station; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a plan or top view of this invention, showing its operation. Fig. 2 is a front elevation of the same. Fig. 3 is a vertical central section of the same. Figs. 4 and 5 are elevations of the same in a larger scale than the previous figures.

Similar letters of reference in the several views indicate corresponding parts.

This invention relates to a water-station for railroads in which the steam from the locomotive-boiler itself is employed for the purpose of supplying the tender with water. This purpose is effected by means of a steam-pump of that construction on which a patent has been granted to me January 5, 1864, or of any other suitable construction, the steam from the locomotive-boiler being conducted to said steam-pump through a suitable hose of india-rubber or other suitable material which can be connected or disconnected at a moment's notice.

The pump may be placed between two adjoining tracks at or near a station, and the steam-pipe, as well as the ascension-pipe, is suspended from a revolving adjustable head, so that the steam-pipe can be made to point in either direction, and the spout is arranged so that it is free to swivel on the end of the ascension-pipe, and that it can be turned in either direction, according to the position of the tender.

A represents a water-station of a railroad. The water from the well is elevated by the action of steam which is injected through the pipe *a*. This pipe descends into the well and connects with a nozzle, *b*, which is turned up and stands opposite to the mouth of the ascension-pipe *d*. The water which rises by the action of the steam in the ascension-pipe discharges through the spout *e*.

The steam-pipe *a* and the ascension-pipe *d* are inclosed in a hollow column, *f*, and they are suspended from the head *g* of said column, said head being so arranged that it can be turned in either direction. The operation of turning said head is effected by a lever, *h*, which also serves to lock the head in the desired position by dropping into suitable notches in the top edge of the column.

By turning the head *g* the end of the steam-pipe *a* can be made to point in either direction, as shown in Fig. 1 of the drawings, so that the same can be readily connected with the locomotive-boiler, from which the steam is to be taken to obtain the requisite supply of water.

The spout *e*, through which the water discharges into the tender, is secured to the upper end of the ascension-pipe, so that it can be made to swivel in either direction, and in order to steady it in its position it is made to pass out through a globe, *i*, which is fitted to the upper surface of the head *g* of the column *f*, so that it can revolve independent of the same.

By this arrangement I am enabled to adjust the steam-pipe and the spout of the ascension-pipe readily to suit the direction in which the locomotive approaches. For instance, if the locomotive approaches in the direction of arrow 1, Fig. 1, the steam-pipe and the spout of the ascension-pipe are brought in the position shown in black outlines in Fig. 1. The steam-pipe is connected to the boiler of the locomotive by a suitable hose of india-rubber or other flexible material, and the tender is supplied with water by the action of steam taken from the locomotive-boiler itself.

If the locomotive approaches the water-station in the direction of arrow 2, Fig. 1, the steam-pipe and the spout of the water-pipe are turned to the position shown in red outlines in Fig. 1, and the connection between the locomotive-boiler and steam-pump can now be effected in the same manner as above described.

What I claim as new, and desire to secure by Letters Patent, is—

1. The swivel-head *g*, in combination with the steam-pipe *a* and ascension-pipe *d*, con-

structed and operating substantially as and for the purpose set forth.

2. The swivel-spout *e*, in combination with the ascension-pipe *d* and steam-pipe *a*, constructed and operating substantially as and for the purpose described.

3. The supporting-globe *i*, in combination with the swivel-spout *e*, ascension-pipe *c*, and steam-pipe *a*, constructed and operating substantially as and for the purpose set forth.

HENRY S. LANSDELL.

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