

Great Mechanical Improvement—A new use of the Boston Aqueduct.

Since the introduction and use of the Cochituate water in Boston, it became very necessary to ascertain precisely the quantity of water made use of daily by the large establishments in Boston, as the engineers and the owners could not agree as to the probable amount. Those having the water-works in charge, instead of waiting for accident to produce a machine suited to the purpose of measuring the water, sought among the mechanics in their employ and in the State, for one possessed of the skill most likely to succeed in the enterprise. Mr. Samuel Huse, formerly a citizen of Newburyport, was selected for this undertaking. He has succeeded in producing an instrument which admirably answers the purpose.

By the employment of this machine in Boston over most of the streets of which the water in the pipes has a head of from 80 to 100 feet, it has been discovered by Mr. Huse that the water would pass the meter or measurer with such force as to superadd an efficient power. He has perfected, according to the statements of a correspondent of the *Newburyport Herald*, his invention and secured letters patent, and has set his meter in operation for driving the printing-press of a daily paper in Boston. Through a two inch lead pipe, a stream of Chochituate water is introduced into a meter which only occupies 24 square inches. The fall of water between the Boston

reservoir and this meter is about a hundred feet. This two inch stream will discharge 80 gallons of water each minute, and in passing through the meter will give a motive power equal to what is called three horse power. This is more than sufficient for driving the press. It is less hazardous than a steam engine, requires no attention and is always in readiness. It can be used where steam engines would not be allowed.

This invention will be of immense service to the various mechanical and manufacturing establishments in Boston, enabling many more of them than formerly to make use of this power in their various processes. The invention is one of much scientific and mechanical interest, while to us, we must confess there is a trifle additional interest from the fact that it comes from a citizen of our native town.
