

LAPOYPE'S HYDRAULIC RAM.

A friend of Mr. Lapoype has requested the insertion of the following certificates—

I hereby certify, that I attended an experiment made with the *Hydraulic Ram* of Mr. Lapoype, that with a descending tube of 1 inch diameter and 4 feet long; it threw from 1 12th to 1 16th of the water 22 feet above the reservoir—and am satisfied, had it not been for the leaking pipes affixed to it, it would have thrown the water much higher. I am so well satisfied of the effect of this machine, and pleased with the simplicity of its construction, that I have had one made for myself to be placed under the eaves of the house, to catch the rain water from them, and throw up a sufficient portion of it into the cistern on the top of the house as a resource in case of fire.

Given under my hand at Monticello,
this 27th of Sept. 1805.

TH: JEFFERSON.

I certify, that I have twice seen Mr. Lapoype's *Hydraulic Machine*, which though cheap, and simple in its construction, by an ingenious contrivance, without the aid of steam, or pumps, or any other agent, than that of the water itself as it passes thro' it, raises water to a considerable height above the level of that in the reservoir from whence it is drawn: and that I have seen one made at Monticello, by the President's workmen, on the model of this, which forced water up to the roof of his house, through a tube and leather hose annexed to it: notwithstanding there were several leaks in the latter.—As well as I can now remember, the height of the roof above the surface of the water in the reservoir, (which was used on that occasion) was about three times greater than the height of that surface, above the level of the ground on which the house stands.

I have no doubt that this Machine may be applied to many useful purposes, and amongst them, as proposed by the President, to supplying cisterns on the roofs of houses, with water to be in reserve in case of fires; as the rain which falls on the roof may be received from the eaves into a reservoir, from which by the action of the machine, a sufficient quantity of it may be forced up into those cisterns, sav-

ing thereby the labor and avoiding the difficulty of carrying up water in the common way, or in any other manner that occurs to me.

I also certify that the said Hydraulic Machine appears to me to be an object, worthy of the peculiar attention of the curious, and that it is highly desirable that experiments should be made with it upon the largest scale, of which it is susceptible of being applied to useful purposes; and that I think, subscriptions should be put about, to raise such sums of money, as may be sufficient to defray the expenses of constructing several such machines, of different sizes, and also as may be a recompence to Mr. Lapoye, for his communications respecting them and for his assistance, in the course of some of the experiments.

JOHN PAGE.

Richmond, Nov. 1st, 1805.