"I shall only add, that M. Daguerre has entered into a contract with Giroux, the celebrated toyman, for the practical application of his discovery, and that it is said he has already, in petta, some new results of importance, which he will submit to the Academie at an early opportunity."

Our subscribers will notice many points of interest in the foregoing communication. It gives a very correct idea of the discovery at the time the art was first announced.

## STEAM VERSUS STAME.

MR. James Frost, of Brooklyn, about a year since, published a pamphlet, in which he stated that steam, heated out of contact with water, was expanded to twice its volume by four degrees increase of temperature, to three times by sixteen degrees, and to ten times by about four hundred and forty degrees increase.

Professor Horsford, as Chairman of the Rumford Committee of Harvard University, made a report upon this pamphlet, stating, that instead of the great expansion found by Mr. Frost, of two volumes for sixteen degrees, its increase amounts to a thirtieth of its volume less than a ninetieth of what Mr. Frost represents it.

Recently, Mr. Frost has published a supplement to his pamphlet, containing a report by a Committee of the American Institute, signed by Professor Renwick, Mr. Meigs, and Mr. Dunham the engineer, in which they state that his experiments are performed with an apparatus, and upon principles, which admit of no doubt as to the accuracy of the results; and they endorse the statement that an increase of temperature from 212° to 650°, in steam heated out of contact with water, increases its value nearly ten-fold. And Mr. T. H. Secor, Mr. Stevens, principal of the New York University, Captain Leich, of the Steamer America, and several others, who are practically conversant with steam-engines, certify that they witnessed two experiments with an engine, in one of which

common steam was used, and in the was uper-heated steam, the results of was showed that more than six times the was done, by the same quantity of when used in the latter way.

It has hitherto been believed by phil phers and practical engineers, that expands 1-480 for every increase of 1 de of Fahrenheit, very nearly as Profe Horsford reports. There must, then, strange delusion, either in the scient world, or in the minds of the gentle who endorse the views of Mr. Frost. hope that such a difference, among me eminent, will induce some careful ex mentalist to examine closely into these ters, and find where the error lies. It importance; for, if the new experiment not fallacious, more than eight times power now got from a given quantity fuel can be obtained.

The quantity of fuel necessary to su heat steam from 212° to 650°, Mr. N states to be less than a fifth of what is quired to produce the steam from boil water. If this be exact, there would some advantage in superheating steam though the law of Guy Lussac should found true. Engineers generally, we lieve, have been careful not to super steam, unless they could do it by the from the smoke, which would otherwise wasted, because they believe that a gi quantity of fuel, applied to the product of saturated steam, would be productive more power than when used in super ing.

We shall be glad to hear from any of friends, who may make careful experiment upon the subject.

## GETTING A LIKENESS.

Mr. Smith tells an amusing incident occurred while he was taking Daguer types in western New York. An elder gentleman called at his room; said! "I would like to get my Daguerred taken, and while I go down street 105