ANNOUNCEMENT OF DAGUERRE'S DISCOVERY.

A Paris correspondent to the Athenæum of 1839, writes in a letter dated Paris, Aug. 21st, 1839, giving a full account of the proceedings of the Academie des Sciences, on the day of the announcement of Daguerre's discovery—writes as followers.

"When M. Arago, in the presence of a crowded audience, which had besieged the door of the Institute three hours before the commencement of the sitting, divulged the secret of M. Daguerre's invention, which has now, as you are aware, become public property. These drawings having been exhibited by way of specimens. M. Arago began by recapitulating the discoveries—or rather hints towards discoveries-of former chemists. He afterwards dwelt upon the progressive experiments of M. Niepce, since carried out by M. Daguerre. Arago stated, according to M. Daguerre's process, copper plate with silver is washed with a solution of nitric acid, for the purpose of cleansing its surface, and especially to remove the minute traces of copper, which the layer of silver might contain. This washing must be done with greatest care, attention, and regularity. MoDaguerre has observed, that better results are obtained from copper plates with silver than from pure silver; whence it may be surmised that electricity may be concerned in the action.

After this preliminary preparation, the metallic plate is exposed in a well-closed box, to the action of vapor of iodine, with certain precautions; a small quantity of iodine is placed in the bottom of the box, with a thin gauze between it and the plate, as it were to sift the vapor and diffuse it equally. It is also necessary to surround the plate with a small metallic frame, to prevent the vapor of iodine from condensing in larger quantities round the margin than in the centre; the whole success of the operation depending on the perfect uniformity of the larger ioduret of silver thus formed.

The exact time to withdraw the shee plated copper from the vapor, is indiby the plate assuming a yellow color.

M. Dumas, who has endeavored to certain the thickness of this deposit, a that it cannot be more than the millipart of a millimetre.

The plate thus prepared, is placed in dark chamber of the camera obscura preserved with great care from the fam action of light. It is, in fact, so sensi that exposure for a tenth of a second more than sufficient to make an impress in it. At the bottom of the dark cham which M. Daguerre has reduced to a dimensions, is a plate of ground which advances or recedes until the in of the object to be represented is perfe clear and distinct. When this is gain the prepared plate is substituted for ground glass, and receives the impress of the object. The effect is produced very short time. When the metallic is withdrawn, the impression is hard be seen, the action of a second vapor is quired to bring it out distinctly; the w employed for this purpose is mercury. is remarkable that the metallic plate, to properly acted upon by the mercurial va must be placed at a certain angle. To end it is enclosed in a third box, at the tom of which is filled with mercury, is be viewed in a vertical, as is usually case with engravings, it must receive mercury at an angle of about 45°. If, on contrary, it is to be viewed at this an the plate must be arranged in the boxi horizontal position. The votalization the mercury must be assisted by a temp ature of 60° (of Reaumur).

After these operations for the complet of the process, the plate must be plus into a solution of hyposulphate of so This solution acts most strongly upon parts which are uninfluenced by light; reverse of the mercurial vapor, which tacks exclusively that portion which been acted upon by the rays of light. In