MARYLAND GAZETTE,

Containing the freshest Advices, Foreign and Domestic.

Wednesday, August 30, 1749.

From the GENTLEMAN'S MAGAZINE.

Entrall of the exact Description of the House of Ice, ercaled at St. Pete sour; in January, 1740; and of it's Furniture. By George Wolgang Krassett, Projessor of Natural Philosophy, and Member of the Imperial Academy of Sciences at Petersburg.

N a planet where the cold is more severe and lasting than ours, as in Saturn, we have reason to think, that ice acquires a solicity equal to that of our stone or marbie; and we may uppose the in-habitants there ute it in like manner to build their

This way of reasoning is confirm'd by the account of an experiment wortey the curiofity of the reader, we mean the deicripuon of a pleasure hou e, such as we may conceive in a rialet remote from the fun, and fuch as was really built at Sr. Peterjourg.

Mr. Willgarg begins with observing, that ice or water congea'ed has been for a long time confider'd as a substance little proper for certain works of art; to cut it into prines to transmet he light, like our quarries of glass, or making cups for disking, or even forming a kind of burning glasses. These were the only uses ice was employ'd in, 'til in 1740, at Dibec in Germany, a lion was carved of ice, feven feet long, to artfully wrought, that scarcely the best sculptor in wood or stone could have furpais'd it.

But the undertaking begun and fir sh'd at St. Peterfourg, will give the reader a juster idea of the houses or palaces we may suppose in Saturn. A structure of ice was erected according to all the rules of modern architecture. M. Alexis Daricewitsch Talischtschew, lately made chamberlain to the Czar, had the honour of the invention and construction of this

About the end of the year 1739, it was begun upon the river Neva. The Czarina Anne, who was a lover and projectiels ef arts, having granted all the affishance necessary for the defign. The building met with some obstacles, when the walls were carried up some length, the ice wanting the solidity and thickness requisite, gave way; a thaw that followed, contribu-ted to spoil the work, but the frost returning, and no necessary materials being descient, the undertakers had no further diffi-culty, but to chuse a right situation. The place fix'd on for this purpose, was between the fortress of the admiralty built by Peter 1. and the winter palace built by the Czarina Anne; cnoice was made of the cleanest and largest pieces of ice, which were cut into blocks by rule, and agreeably to all the methods of architecture, as well as adorned with all it's embellishments.

These ice blocks were raised with pullies, and regularly laid en each other, and their joints cemented with water, which being poured into them, froze in an inflant, and ferv'd as morter for this surprizing edifice, which in a short time was finished in least the state of th ed, in length 56 English feet, by 17 and a half broad, and in

height 21.
To give the reader a just notion of the design, we shall describe the structure according to a copper plate representa-

This place confilted only of one flory, a few degrees raised above the ground floor. The front presented to the eye seven openings at an equal distance, of which the middlemost form d the entrance, or door, with a portico; the fix others the windows. The portico was crown'd with a pediment, from each fide of which proceeded a balluttrade, furrounding the top of the bailding, having a flatue on each corner, and two others adorned the top of the thiry.

windows, whose frames, painted in resemblance of green marble, were of ice, as was the floor, and also the statues beforementioned. These windows being at night illuminated by a great number of lights, whose lustre met with no obstacles, the walls being transparent, discover'd at once to the spectator all the infide of the building. All this the reader may eafily conceive, but it is not so easy to form a notion of the manner in which the chambers were adorned with all the necessary furniture, and with a fuirable magnificence.

In one of these chambers was a state bed with it's curtains and the other apparatus; a toilette, on which was placed a large mirror, and cardles of ice, which being smeared with naprha, gave a clear light. A chimney filled with pieces of ice bedaubed in the same manner, presented a seeming fire, tho the whole was nothing but ice in different forms.

In a second chamber were statues, carv'd and gilt sofas, a pendulum clock, through which was seen the clock work, as if real. A table, on which lay real cards frozen over; a cupboard with a compleat tea equipage. In all which objects the ice had not only the form, but the colours, of the object it re-

As to external decoration, it was incircled with a ballustrade, intersperfed with pillars bearing large balls. This enclosure had three entries, one facing the front or grand entry before-mentioned the others at each fide. The pillars that flood at these side entries, supported urns with orange-trees, whose branches, leaves, and flowers, were all of ice. Further diftant on each fide, but without the ballustrade, role a square pyramid, which being hollow was illuminated by night on the infide. Lastly, on the right side beyond the pyramid appear'd an elephant, big as the life, upon whom was sculptur'd a Persian with his arms in his hand, and at each side a sigure of his own nation, all in their natural fize. This animal, during the day, threw water from his trunk, and at night spouted instam'd naptha; he also cried like a real elephant.

At some distance on the lest, to answer to the elephant, was a fort of pavilion or tent, beneath which was a hot bath, which Mr. Wolfgang affures us was put in ale. What is fill more extraordinary, is fix cannons of ice charged with iron ball, which were let off on this occasion, and two mortars which threw out bombs of 90 pounds weight.

Mr. Welfgang, with regard to this last article, gives us fome expianation, as probably he thought it would be more difficule to b lieve, than all that preceded it. For as he does not tell us, how these internal illuminations, that each night render'd this palace so splendid, nor how the slame produced by the napthaon those ice candles, or the flame ejected by the elephant, did not melt the object they surrounded, he no doubt ascribes it to known experiments, which prove that certain matters are capable of inflammation, without heat. As to the objection, how it is possible for cannons of ice to resist the force of gunpowder, he replies in this manner: If the ice be more capable of refifting the action of the powder than the bullet dicharged, the cannon will remain whole. This way of reasoning, the true, is a kind of begging the question, because it is bringing the effect the cause produces, for an explanation of the cause itself. What he adds, to prove that a cannon of ice is capable of such a degree of refistance, is not more fatisfactory; that is, That ice, like other folid bodies, is capable of a degree of refiffance in proportion to the intenfenels of the cold. But there is another property he ascribes to ice, which makes more for his purpose; viz: that it is endow'd with a kind of elasticity, by means of which it yields or gives way to a certain degree, and then returns to it's former state.

As to gunpowder, which remains equally combustible, the laid on ice; Mr. Wolfgang shews from experience, that not only in in hard took