Sir,

I received your distinguished favor of the 7th. I did not expect you would have condescended formally to notice by letter the treasures

lodged last year in the Summit of New Hampshire in the interior of New York at Alida Island, in several other parts, with a pair of Tablets and box of Slate pencils made from this stone, together with one of my first stones for church or carriage use, which I shall send by the first vessel

they open to receive. It is gratifying to me, Sir, to find that you have

regarded anything that I shall merit the honor of your attention,

to make my country so advantageously tributary to the Taj dealers

of Europe. If the stone at Washington, which you say is almost

in quantity is of a quality to resist fire, easy to be wrought with

the common tools of our trade, I presume many advantages will

arise from the discovery of it that City of its vicinity,

agreeable to your request, I shall endeavor to give you a

description of my future improvements. Being brought up

a ship built under New England, driven from my native

Towns, Boston, when a child at school to make room for the

troops of General St. John by deprivations of the advantages of an

education, you will please to accept as my plan for the State:

first, of all communications, my leisure, you will perceive was a

nature calculated to lead to exploring the mysterious nature of

in search of those hidden principles by which its useful properties

of extensive power could be brought into Cheap Simplicity

to serve, I accordingly commenced the investigation about three

years since in a field I presume the most Sharon

least explored of any which has ever engaged the attention

of Human Science, for I believe you will agree to the

fact, Sir, that men have made but a small advance

in the oceanary or domestic use of fire, since the flood.
The first operation which I accomplished in this line was to make one thousand cords of wood under as much chip load nearly as two hundred & twenty cords. To do this, the chip was harvested by boards of one foot square, the height of it desired to inches above each flue below 1/8 inch through which the flames entered into the oven from the bottom of the oven. Each flue is one 1/2 inch above the oven. From the bottom of the oven, an opening from the furnace of 7 by 12 inches through which the flames drove into the oven. From the opening to every part of the oven, from whence the smoke passed through the cap of the door which has an aperture or mortise of 7 1/2 by 10 inches. The oven is mounted horizontally over, and the top of the oven descends into the house. Brick and mortar hence exude up a small perpendicular chimney about thirty feet from its entrance, which serves it not for the larger brick ovens. A wall at times becomes a conductor, a chimney going to its furnace, all substance drawn by this suction fall to the bottom of the oven, as usual but the most volatile parts not. The jambs, cell, cape, and cladding, are all of stone. The door is made thick at the bottom, gradually receding to the top. By this means the doors shall not be without any weight sufficient. This is still while the oven is heating by this improvement, one will avoid the usual hazard from ashes settling in the wood for the purpose of drying, as they frequently fall in the right to the great waste of wood, increased cleaning. The three or four fires at the oven, besides occur, bottom which the one flame may have been ablaze.

On the ground, at the expense of twenty dollars each will now last twenty years. The fire which is dead by this improvement can avoid the usual hazard from ashes settling in the wood for the purpose of drying, as they frequently fall in the right to the great waste of wood, increased cleaning. The three or four fires at the oven, besides occur, bottom which the one flame may have been ablaze.
I am not with stone that meeting it than declines, venue under the seat slab, it does on alternately backfolds in foreward, until by the bottom slab forming the cabinet, it passes to the chimney corner. From which it should descend to the earth in the cellar under the dam which being close will give a most exact answer to the direction from which it may be again conducted by a false back to the chimney or act, leaving the walls of the house by a pipe lead of the inside by 6 or 8 inches on the ground, as a conductor to allow the mistake of sound heat, stations of garden, or to the help of machinery, the own combustion in the act of warming the room are sufficiently heated for doing the work washing, & when passed through a partition cell as distant, all, & diurnal operations, done to boiling water by the spout passages through the hottest part of the stairs which may be matted, until the effort is more fits. The collectors in these circumstances have the rest effect for heating boiling the steam of which is usually conducted to the walls. For common length 6 breadth of them is 3 feet by 2 feet, the length that of tables in common use 12 is valuable for that purpose. For heating plates & dishes, for keeping meats & groceries warm, while sitting for an exchange in a denuding Roman, the heat from this system of the heat waste & representing values, I can express in equally pleasant, to obtain a constant place & study, equally in large apartments, the heat distant parts of the room are equally supplied. This combination also serves to health, any kind of small, heat, cleansing, & every other local cure, to the last of which I only object on account of the moment of the operation, against fires produce immediate disadvantages effect. I have reasons to believe that the diversity of the smoke to the cellar as the present in this system produces such a change as make it as different in the power of the fire, safety, gain, cleanliness, health, beauty, than all been community consented to the construction of the annual fire, cabinet which is now in place, & which is at the same time 12 dollars a second, & double cabinet forming a fire, & which can be washed that room 3 at the same time a pedestal for the eating, supplied from the same fire, & Dol. The fire is a burning cabinet with fire place in front, getting between the firepoof panels, with an impregnable engine of air, to its desirable chambers. It is made by this system by which its effects. It is
United States

South Carolina

November 8th, 1792