We thank an anonymous correspondent for the following, in mit of Mont Blanc, one of the Alps, that breathing is there pergenerally esteemed melodies of modern times. It is time it were rescued from the drunken rovel.

AULD LANG SYNE.

Should auld acquaintance be forgot, And never brought to mind ! Should auld acquaintance be forgot, And days o' long Syne ! For huld lang some my dear, For said lang syne; Wha lo'es na friens o' days gone by, And auld lang syne?

We two has run about the brass, And pou'd the gowans fine; But we've wander'd many a weary fit Sin auld lang syne. For auld, &c.

We two hae padelt in the burn, In simmer days sae fine But seas between us braid hae roar'd, Sin auld lang sync. For auld, &c.

And here's a baun, my trusty frien, And gie's a haud o' thine; For dear's the ties o' other days, And auld lang syne. For auld, &c.

AGRICULTURAL.

CONSTITUTION OF NATURE—THE ATMOSPHERE. FROM JACKSON'S AGRICULTURE AND DAIRY MUSBANIRY.

it is now ascertained that there are at least fifty-four simple or to excess. elementary bodies in nature, namely, six gases or urnal fluids; forty-two metals; and six bodies of no particular class, the names animate, are composed of one or more of these fifty-four substances. Matter, however, has ever been, and is now, undergo take place upon an extensive scale, as part of the regular func-tions and operations of nature, while others are effected by the ingenuity of man, to serve the purposes of his ordinary economy. of the changes which matter is perpetually undergoing.

bodies are effected by certain principles of chemical and mechanis so caused are the winds, with the effects of which all are familiar. bodies are enceted by certain principles of encinear and mechanics of calacton, which is unnecessary here to particularize, and also In the British Islands, and other countries similarly situated, the from the influence of heat and inosture. In as far as the natural winds which blow are in general a result of disturbances in the operations of the vegetable world are concerned, the prime imme. balance of the atmosphere at the distance of thousands of miles in diate agents are atmospheric air, heat and light, and of these we the tropical or but regions of the earth, and their occurrence candiate agents are aumospheric air, meat and egint, and of mass we have the appropriate the carrier and the contract of the calculated upon, and hence a principal cause for uncertainty rally known, is an invisible æriform fluid, which wraps the whole in the weather.

The atmosphere possesses the capacity for absorbing and six-highest mountains. This great ocean of air, as we may call it, is taining mosture, but only to a limited extent. When saturated far from being of a uniform density throughout its mass. At and to a certain degree, it is relieved by the falling of the mosture in near the level of the sea it is most dense, in consequence of the the form of rain. It is calculated that the whole atmosphere pressure above. As we ascend mountains, or in any other way round tee globe could not retain at one time more moisture than penetrate upwards, the air becomes gradually less dense; and so would produce about six or seven inches of rain. By an elevation

our opinion, excellent version of one of the best known and most formed with some difficulty. Beyond this limited height, the density of the air continues to dimmish; and at the elevation of about forty-five miles it is believed to terminate. So dense are the lower in proportion to the higher regions, that one-half of the entire body of air is below a height of three miles, the other haif being expanded into a volume of upwards of forty miles.

This remarkable difference in the density of the air at different heights is particularly worthy of our attention; for the capacity in the atmosphere for receiving and containing heat from the sun's rays, depends on this peculiarity in its condition. It is well known that the air is much more warm on low than on high grounds; but it is perhaps not so generally understood that this arous from the difference of density in the air at the two places. It we take a pound weight of air near the sea's level, and another pound weight at a spot a mile above the sea, we shall find that each pound contains precisely the same quantity of heat; but in the case of that taken near the sea, the air will feel warm, and in the case of the other, the air will feel cool. This seems a contradiction, yet it is a truth. A pound weight of air, taken near the sea, is compact in substance, and goes into a comparatively small bulk; but that taken from a high part of the atmosphere is thin, and occupies a much larger space. This explains why the thin air on high grounds is seemingly colder than on low situations, Aloft, the air is as warm as it is below, but there is less of it ; the particles are more widely asunder, and this produces the effect of a great -coldness. Properly speaking, the cold in high situations arises from the want of air, rather than from the air itself.

In the warmest regions of the globe, the air is cold at the tops of high mountains, merely because the air is there thin and inepable of forming a medium for the retention of the sun's rays.-In every country there is a point of altitude at which water freezes on all occasions, whether summer or winter. In Europe, this point—called by some the snow line, or point of eternal snow—is from five to six thousand feet above the level of the sea; in the hot regions of Africa and America, it is fourteen thousand feet It was anciently supposed that all created things consisted of high. At these points of altitude respectively, snow her constantbut four elements—earth, fire, water, and air; but this idea has by unmerted on the mountain sides and sammits. In the warm long since been abandoned. Earth is a composition of various regions of Hindoostan, the atmosphere is as cool and pleasant at a substances, as will be afterwards explained; fire is merely a mani. Certain height on the Himalaya mountains as it is in the northern festation of extreme heat; water is composed of two gases in part of Europe. The plants of Mexico under a burning sun would shemical union; and air is also a compound of various gases not be endurable by man, if they were not at such an elevation as intimately united in different proportions. Instead of only four, to possess an atmosphere so thin as to be incapable of being heated not be endurable by man, if they were not at such an elevation as

Although the heat of the atmosphere thus depends on the density of the fluid, it is proper to state that it is likewise influenced by of which are carbon, boron, phosphorus, sulphur, salson, and other circumstances. Certain bodies have the power of heating iodine. All objects recognisable by our senses, animate and in. the atm sphere in a greater degree than would otherwise be the case. For example, in valleys the heat is thrown off from the sides of adjacent hills, from forests of trees, or other objects, and ing perpetual decompositions and recombinations, some of which in these situations the air is hotter than if there were no such radiation. If the spot be sheltered from the cooling effect of winds, there is another cause of increase to the temperature.

The more heated that any fluid becomes, it is the more expan-The constant forming of new soil out of rocks; the growth and ded, and consequently lighter. Being lighter, it rises or mounts decay of vegetable and animal bodies, and the resolving of their upward, while the cooler fluid sinks and occupies its place to be decayed substances into those elements or combinations which warmed and lightened in turn. These alternations greatly disturb serve for the nour-shinent of new bodies; the processes of evapo- the tranquility of the almosphere. Here the air is using, there it ration and recondensation, forming rain and snow—are but a few is sinking or rushing addense to supply the deficiency; in short the changes which take place in the form and character of ever-shifting temperature of the atmosphere. The currents of air

thin is it at the height of three index, as for instance on the sum, of temperature, the capacity of the atmosphere to about our days