### THE OCEAN, ITS GRANDEUR AND SUBLIMITY.

BY REV. WALTER COLTON.

The most fearful and impressive exhibitions of power known to our globe, belong to the flame and falling torrents of fire, and the earth- ing power on man. It unravels and weaves quake, whose footstep is on the ruin of cities, snew the web of his moral and social being. are circumscribed in the desolating range It invests his with feelings, associations, and of their visitations. But the Ocean, when habits, to which he has been an entire stranit once rouses itself in its chainless strength, ger. It breaks up the scaled fountains of shakes a thousand shores with its storm and his nature, and lifts his soul into features prothunder. Navies of oak and iron are tossed minent as the cliffs which beetle over its surge. in mockery from its crest, and armaments, Once the adopted child of the ocean, he manned by the strength and courage ofmillions, can never bring back his entire sympathies to perish among its bubbles.

steep, if it rolls to the bosom of the earth melts ultation and triumph through its foaming bilaway, and is lost in vapor; but if it plunge lows. All the other realities of life will be into the embrace of the ocean, this mountain comparatively tame, and he will sigh for his mass of ice and hail is borne about for ages in tossing element, as the caged eagle for the tumult and terror; it is the drifting monu- roar and arrowy sight of his mountain catament of the ocean's dead.

The tempest on land is impeded by forests, and broken by mountains, but on the plain of the deep it rushes unresisted; and when its strength is at last spent, ten thousand giant waves, which have called it up, still roll its terrors onward.

stream are inhabited only by the timid prey per was read. It was presented by a wellof the angler; but the ocean is the home of known engineer, M. Andraud, who has made the leviathan; his ways are in the mighty deep. many public experiments on compressed air The glittering pebble, and the rainbow-tint- as a substitute for steam on railways. I give ed shell, which the returning tide has left on you a resume of the contents of this paper. the shore as scarcely worthy of its care, and It is entitled Eroscopie, or the Visibility of the watery gem, which the pearl-diver reach- the Molecules of the air. Some of the dees at the peril of his life, are all that man can ductions made, in a medical point of view, fich from the treasures of the sea. The are in the highest degree curious. M. Angroves of coral which wave over its pavements, draud proves, that, by a very simple contriand the halls of amber which glow in its vance, the air is rendered visible. By taking known to break a line capable of sustaining tube may be fitted on to the nose of a bellows, depths, are beyond his approaches, save when a piece of card, colored black, and piercing 200 lbs. The surface spread by this sail is and the other applied among the hair of the he goes down there to seek amid their silent it with a fine needle, this interesting fact is magnificence his burial moument.

The island, the continent, the shores of civillized and savage realms, the capitals of kings, are worn by time, washed away by the wave, consumed by the flame, or sunk by the earthquake; but the ocean still remains, and still rolls on in the greatness of its unabated

Over the majesty of its form and the marbeli of its might, time and disaster have no power. Such as creation's dawn beheld, it rolleth now. The vast clouds of vapor which roll up from its bosom float away to encircle the globe; on distant mountains and deserts they pour out their watery treasures, which gather themselves again in streams and tor- the eye itself; the molecules of air which are rents, to return, with exulting bound, to their observed, are those which float in the liquid, parent ocean. These are the messengers iness on the great waters, to see the works of the Lord, and his wonders in the deep.

of a still night, with naught above him but ners of apoplexy, will be announced by pertu-the silent and solemn skies, and naught a- bation in the molecules. Fever always exists sound and beneath him but an interminable when the molecules under the action of a ues to coze up from beneath, and gradually it used for that purpose, and recommend a waste of waters, and with the conviction that magnetic current circulate on a vertical elevations are formed, until at length ranges trial of it. If it be found to work well, the and chains of hills are formed, exactly corres- fact will be an additional recommendation to ty, a feeling of loneliness, solitude and desertimes in another; and when this movement of ponding in shape with those which are found the invention in question.—Maine Farmer. for the vast, mysterious, and unknown, will tient experiences the singular sensation of resemblance is complete, and M. Gorini can come upon him with a power, all unknown turning, as it were, upon a wheel of ixion," before, and he might stand for hours entranced in reverence and tears.

Man also has made the ocean the theatre of his power. The ship in which he rides that the most useful articles, as employed, in fria-first reduced by the application of heat to a the exquisite manner in which all the details of element is one of the highest triumphs of his tion matches, which are now so indispensa- liquid state, and then allowed gradually to the work are consummated, ensures the owner skill. At first this floating fabric was only a ble to our comfort. Hitherto, to labour with consolidate." frail bark, slowly urged by the laboring oar. this substance involved fearful diseases to The sail at length arose and spread its wings those who, from necessity or interest, devotto the wind. Still he had no power to direct ed themselves to work with it. It was also denounces the use of saltpetre in brine intend-hole in the soil, in convenient places—say in his course when the lofty promontory sank very difficult to transport, and its storage was ed for the preservation of flesh to be kept for your shed or barn yard, of the desired capacifrom sight, or the orbs above him were lost a serious consideration, as it ignited at a sum-food. That part of the saltpetre which is ab-

As each gun From its adamantine lips Spread a death shade round the ships, Like the hurricane's eclipse

But of all the wonders appertaining to the Ocean. The volcano, with its ascending ocean, the greatest, perhaps, is its transform-

the land. He will still move in his dreams The avalanche, shaken from its glittering over that waste of waters, still bound in ex-

## Scientific.

#### The Air Rendered Visible.

The Paris correspondent of the Washingestablished. If we look through this hole at the sky, on a fine day, or at a strong lamp, having a ground glass, we see a multitude of little transparent globes moving in the midst of confused nebulosities. These little globes, surrounded with a kind of halo. These atter, says M. Andraud, are the elements of oxygen, whilst others are elements of azote. After continuing the observation for some time, we shall see small points detach themselves and disappear in falling; these, says M. Andraud, are atoms of carbon. This phenomenon of vision, it is essential to remark, passes within which occupies the anterior part of that or-

# Amorphous Phosphorus...

composing the crust of this earth, may be but tute for which is, he says, sugar, a small quan-Scientific American.

Causes of Insanity.

almost incrediable. Thus two men became why such an increase should not be realized. mad from fear of the cholera; two women The world is but beginning to understand the from living with insane persons; one from at-innumerable uses to which this metal may be tending a singing class; one from terror at applied. the Parisian revolution of 1848, and one from the excitement of travelling, for the first time, in a railroad car. In several cases insanity resulted from bodily sickness. Three men Destruction of Lice on Cattle and Ticks on Sheep became crazed from exposure to a hot sun. One poor fellow went mad from excessive sea are oftentimes infested with vermin, such as sickness. Generally, women are more liable lice and ticks, &c. This trouble generally to hereditary insanity than males; and it is happens to those lean in flesh, and the vermin known that their sedentary occupation, render prevent their thriving, and sometimes have them more subject to it, from most causes, been known to cause the death of the animal than the other sex. In the Bethlehem Hos-litself by the irritation and prostration of pital, during one year, twelve females were strength which they occasion. We have triadmitted who had gone mad from love; but ed all the different washes and lotions and ton Republic says: "At the last sitting of the not one male, In conclusion it is said that ointments that bave been recommended for The mountain lake and the meadow Acadamy of Sciences, a very remarkable pawomen, are moral ones, a fact which should inculate forcibly on parents, teachers, and cold weather. It is no small job to wash or guardians, the necessity of disciplining the oil a calf or a cow all over, thoroughly, in midmoral sentiments, as well as cultivating the in- winter, and if it be not done thoroughly the tellect.

Power or Kites .- The power of a kite twelve feet high, with a wind blowing at the rate of twenty miles an hour, is as much as a co smoke. By having a large tube or box, man of average strength can stand against. with a tube at both ends, into which tobacco With a stronger gale, such a kite has been may be put and set on fire, one end of the forty-nine square feet, and it should be noti-calfor wool of the sheep, and the smoke blown ced that these serve as standing ratios, from in by the bellows. The destruction of the which, by the rule of proportion, the power of vermin is sure. A blanket may be thrown larger kites can be calculated. We must not, over the creature, which will tend to keep the however, suppose that a kite of thirty-six feet smoke in contact with the skin, and thus renin length has only three times the power of a der the effect more speedy in its operation. some of which are more transparent than oth-kite twelve feet in length; for, in fact, it has By having a suitable instrument made, a large three times the power in length, and three stock or cattle of flock of sheep may be gone times the power in breadth, which will make over in a short time. Hens and other fowls the multiple nine; so that it would lift or draw that are infested with lice may be freed from nine times as much as a kite of twelve feet. them in the same way. Two kites, one fifteen feet in length, the other twelve, have power sufficient to draw

tant purposes in medicine. He says: 'The a circle of private triends, a remarkable ex-migh also be used for the purpose of the smoke physician will one day make use of the zeros- periment, illustrative of his theory as to the pipe we have mentioned; and probably be a Let one go upon deck in the middle watch Vertigo, giddiness, which are the forerun stances, known only to himself, in a vessel, better calculated for burning the substance

crystalizations of one and the same body .- tity rendering the meat sweeter, more wholesome, and equally as durable.

IRON .- It is estimated that the quantity of The more ordinary causes of insanity, such iron manufactured in 1849, throughout the as pecuniary difficulties, disappointment in world, reached four millions of tons, and that love, religious excitement, grief, intemperance, this was an increase of sixty per cent. over the and excessive joy, are generally well under-quantity manufactured in 1839. The same stood. But in a report of the Bethlehem increase for the ten years following, would Hospital, England, we find some causes as-make the quantity six millions four hundred signed which, to say the least are curious and thousand tons in 1859. We see no reason

## The Farm.

During the winter season, cattle and sheep destroying these pests. Many of them are effectual, but it is a trouble to apply them in job will have to be done again. The easiest and most effectual mode of destroying these vermin is to suffocate them to death by tobac-

We have recently seen a small machine advertised by Hovey & Co., No 7 Merchants' a carriage with four or five persons when the Row, Boston, and by other dealers in agricultural implements, called Brow's Fumigator. It is designed for the purpose of throwing to-If the following, from the London Times, bacco or other smoke over shrubs, flowers, be true, our geological correctors of Moses' &c., that are infested with lice, &c.; also fuwhich proclaim in every land the exhaustiess resources of the sea; but it is reserved for phenomenon, but may be applied to imporcosmogony will have need to correct some of migating green-houses, dwellings, ships, closphenomenon, but may be applied to importho University of Lodi, made recently, before used. We have thought this instrument sents an even surface; but a portion contin- lumes where directed. We have never known

WATER CISTERNS,-Cisterns are now conproduce on a small scale the phenomena of structed on scientific principles, and are found vo'canoes and earthquakes. He contends, eminently to subserve the purposes for which therefore, that the inequalities on the face of they are applied. There is no heavy outlay It is well known that phosphorus is one of the globe are the result of certain materials, required for brick, I mestone or plank, and against the periodical recurrence of those heavy pecuniary expenses which were necesin clouds. But the sacret of the magnet is at length revealed to him, and his needle now pecting phosphorus are now removed by the settles with a fixedness, which love has stolen splendid discovery of rendering it amorphous, the addition of pickle, consists of galatinous of pic se the symbol of its constancy, to the polar which strips it of all its dangerous qualities, and fibrous substances, the former only pos- barrel of cement, costing one dollar and thirty. but deprives it of none of its useful properties. sessing a nutritious virtue : this gelatine is des-cents, or thereabouts, will be sufficient to coat Now, however, he can dispense even with The effect is produced by a simple change in troyed by the chemical action of salt and saltand waper, and flowing wave. He constructs and propels his vast angine of flame and vapor, and through the solitude of the science. Some friction matches made with should be, as leather is from the raw hide becomes as different a substance from what it should be, as leather is from the raw hide becomes an over the solid earth, goes thundering amorphous phosphorus were exhibited in the fore it is subjected to the process of tanning. on his track. On the acean, too, thrones Great Exhibition. The discoverer is Profeshave been fost and won. On the fate of Acting was suspended the empire of the world. In the Gulf of Salamis the pride of Persia elementary erystalized substances into a similar state. Liebig, in the last edition of his decayed teeth, ulcers, &c., and advises a total and the Nile, nations held their breath,