[For the Deseret News.

cells, the lining-membrane of which extends, veloped as in the human system.

acids or common fluids, and of expelling a from the digestive organs, and the chest from

similar amount of the same. the abdomen.

gained ammoniacal liquid freezes into a color- carbonic acid.

ful to the system, the respiratory organs act given out again, because the oxygen and hyas neutralizing agents. Yet, although these drogen readily unite with the atmosphere. organs which are composed of the windplpe In fact the operation of respiratory organs (trachea) and the lungs (pulmo) with their is carried on, on strictly scientific principles, ramifications, tubes and air-cells, are of vital the passage of the impure blood through but few seem to realize the extreme del cacy tation of the oxygen with the blood, after its through at least 25 feet of water, and then presses the opinion that should the snow reimportance for the su tenance of animal life, minute vessels over the air-cells, the assimiof their structure and the necessity of pre- separation from the nitrogen, and its final

mechanism. changes of temperature or air. Hence in a are separated and sympathetic ones united. country, like England for instance, where the peculiarities of climate on account of the temperate zone, depend on the obliquity of the rays of the sun; where mist, fog and rain appear in unusual quantities; where the air is strongly diluted with gases hurtful to the human system; where in fine the meteorological phenomena are of an anom lous character, inflammation of the respiratory organs with its fatal concomitants of pulmonary complaints is of frequent occurrence. In fact, the least exposure to a cold, in any

applied.

Not only, however, sudden changes of temcapable of receiving and containing air, but the mucous membrane or the peculiar lining without detriment, but not of other substances. danger. A tickling, scra ching sensation in the trachea, accompanied by a short, dry breathing ensues, in consequence of the air- enormovs. cells being filled with dust, the proper aeration of the blood in the lungs is prevented, the cerebral system becomes deranged from the ly carried off in a state of asphyxia (apparent death).

It is true that the inhalation of dust or other hurtfu! substances is not always attend- following there was a shock of an earthquake ed with direct fatal results, still the founda- felt. The schooner Kalihiwai went ashore at the rebellion which has desolated this once tion of a slow but insidious and sure malady Kalihiwai, Kauai, February 14th, and be- happy country. is laid, the patient, otherwise fancying himse'f well, is always susceptible to cold, commonly complains of breathlessness on the slightest occasion. In this manner, a person may THE TALENT OF Success. - Every man accomplished. I feel that the patient fabor linger for years, till at least the sympt ms must patiently bide his tide. He must wait; of many months have produced their fruits. of a confirmed consumption are developed by not in listless idleness, not in useless pastime, The army of the Potomac is now a real army; a cold or some other irritating cause. Thus not in querulous dejection, but in constant, magnificent in material, admirable in disciaccording to Alexander Von Humbold, Sir steady and cheerful endeavor, always willing, pline and instruction, and excellently equipped Asthley Cooper, Dr. Hufeland, Dr. Schoenlein, fulfilling his task, "that when the occasion and armed. Your commanders are all that I

unheeded, and the thoughtless person falls of fame. If it comes at all, it will come be- ranks, I see on your brows the sure prestige him he was in the act of saying grace over a victim of his or her imprudence! How cause it is deserved, and not because it is of victory. I feel that you will do whatever the abstracted delicacy. frequently exclaim individuals affected with a sought after. It is an indiscreet and trouble- I ask of you. The priod of inaction is dry, hacking cough, on being asked for the some ambition which cares so much about passed. cause of the alarming symptoms, "oh, it is fame, about what the world says of us, to be I will bring you face to face with the rebels nothing but a slight cold," not knowing, at always looking in the face of others for ap- and only pray that God may defend the right. the same time, that they are on the brink of proval; to be always anxions about the effect In whatever direction I may move; however -Mr. Russell wrote to the London Times grave. A person may laugh at the idea of of what we do or say; to be always shouting, strange my actions may appear to you, ever from Canada, that that country was large risking his life at a dancing party, either by to hear the effect of our own voices .- Long- bear in mind that my fate is linked with yours enough to furnish kingdoms for all the scions inhaling dust or by leaving the ball-room in a fellow.

state of perspiration but that don't alter the case, the danger continues to exist, only unknown to the victim.

The air-cells are in some of the lower animals, on account of the sluggish and inactive By a wise law of the Creator, the animal respiration, few and large, as for instance in system is provided with an apparatus, called the different species of reptiles, insects and the respiratory organs, the machinery of amphibious animals, but in the higher orders, which is one of the most interesting and im- such as the feline species, etc., the natural portant in the human frame, as numerous air- reservoirs of air are almost as completely de-

comparatively speaking, over a surface of The respiration itself is performed by means 20,000 square inches, are established in the of muscles lying between and about the ribs, lungs for the purpose of receiving the neces- and by the diaphragm; the latter is a flexible sary quantity of air, in the form of gases, circular partition, separating the respiratory

The lurgs themselves have not only to the The process of the respiratory organs is disciples of Escuelapius, but to the physiolog- either that of inspiration or respiration, the is', been a subject of deep interest and re- former can be noticed from the convex portion search, as they are organs upon which the of the diaphragm being depressed and the ribs animal life depends in is varous phases, being raised or elevated; the latter or the resand without which the process of nutrition piration is obvious from the ribs being decannot be carried on; -that is to say, the pressed and the central part of the diaphragm variety of food and its component parts con- being elevated. The amount of air taken or enemy's guns a hull rising but about eighteen tain on being conveyed to their legitimate expelled at each inspiration and respiration, somatic departments, elements which are can only be ascertained approximatively or antagonistic to the growth and development relatively, as it varies with the somatic conof the body, such as ammonia, hydrogen and stitution, the sex, age and the state of health of different individuals. A well-developed, scopic slides. The hull is sharp at both ends, By way of parenthesis, I mention here that healthy person will, according to Liebig*, ammonia is originating in the putrefactive inhale at each inspiration forty cubic inches. principles of the animal and vegetable king- The average amount of air in the lu gs, while doms. Its density is 589, 100 cubic inches in a state of rest, is estimated at from three weigh 18.26 grains. It has a very powerful, hundred and fifty to three hundred and ninety four feet wide at the top, and is built of light tion among bovines and sheep than in Calipungent odor with a strong alkaline reaction cubic inches. The annual amount of oxygen three-eighth inch iron. Another, or upper fornia. The Oregon papers are filled with to test paper. It condenses to the liquid inhaled by a person, varies from seven hunform under a pressure of 6.5 atmospheres at dred and fifty to eight hundred pounds, and a 60°, and at a temperature of 103°F., the so similar quantity is given out in the form of inches wide, one hundred and seventy-four growers and dealers in various parts of the

less solid. The carbonic acid is, although it | The process of respiration itself is suimporhas an agreeable pungent taste and odor, a tant that even every particle of air, inasstro g narcotic poison which cannot be in- much as it is composed of oxygen, hydrogen, haled even for a moment without insensibility nitrogen, ammonia and carburetted hydrogen, following, hence the fainting away of persons produces a chemical change in the different in crowded halls or badly ventilated apart- somatic elements. The blood on being dilutments where the air is largely diluted with ed with carbonic acid, assumes a dark color, six inches thick. this dangerous gas which is either generated especially in organs in which the respiration especially charcoals. Its specific gravity is whose habitus or constitution is tainted. In according to Berzelius 1.524, 100 cubic inches well-regulated respiratory organs, the car-Removing thus everything impure and hurt- as they reach the air in the lungs, and are

serving this wonderful system of somatic discharge, on being united with the hydrogen, is in strict harmony with the laws of chemis-The lungs are easily affected by sudden try, according to which antagonistic bodies

> * Baron von Liebig, Professor at the University of Giessen in Germany, noted for his losophical Sciences.

From the Sandwich Islands.

There was, from reports, some terrible storms of rain in Kanakadour in February, ketry fire in case the battery is boarded. A country, will slowly but surely be attended thunder, lightning, rain, hail and snow, hav- spur-wheel, 61 inches in diameter, moved by with fatal consequences unless prophylactic ing prevailed in quantity and duration be- a double cylinder engine, turns the turret, means are used, or proper remedies speedily wond the memory of the "oldest inhabitants." The thermometer in Honolulu stood at 53 on control the aim. The guns move in forgedperature but also the quality of air inhaled, the morning of February 15th. During the affect the lungs. It is true, that the air-cells night previous, hail fell in Koalauloa in quanwith the small bronchial tubes, are always tities to be scooped up, and people crossing wrought iron shot by the Novelty Works each the Wainae Mountains that night reported ball weighing 184 pounds and costing \$47. of these little cavities, is such in its structure, that snow fell thick on the mountain peaks. over Honolulu, the quantity of falling water such a vessel as the Merrimac, and these shot amined a picture, asking at the same time; fine, subtle cust is generated, which passes is represented to have been so great that it were forged for the especial purpose of smashthrough the wind-pipe, enters the air-cells seemed impossible for any roofing to withand settles on their lining, life is exposed to stand its force. The Waikiki plains were at one time nearly a complete sheet of water; cough to eject the impure matter, is one of but how many inches or feet of water fell, is the first symptoms, by and by difficulty in not reported; the papers state that it was

On the 28th of January, a storm visited Waialua and adjoining places on Molokai. impeded circulation, and the patient is sudden- The sea rose to a great height, and the fish pon's along the shores were all overflowed and swept clean of their contents. The night came a total wreck.

Baron Von Liebig, etc., a very simple cause comes he may be equal to the occasion." | could wish. The moment for action has ar-

The following description of the steam battery Monitor is from a New York paper:

THE MONITOR.

Under the act of Congress passed last Summer appropriating \$1,500,000 for iron-clad vessels for the Navy, Captain J. Ericsson, the world-renowned inventor of the caloric us yet. engine, presented proposals for a battery, to be launched within one hundred working days from the date of the contract, the impregnability of which should be tested before the heaviest guns of the enemy, and at the shortest range. The contract was signed in October, and on the one-hundred-and-first working day thereafter the Monitor was launched from the Continental Iron Works at Greenpoint, where she was constructed by C. S. Bushnell & Co., under the superintendence of Thomas F. Howland of Brooklyn.

Externally she presents to the fire of the Potomac. inches above the water, and a sort of Martello tower, twenty feet in diameter, and ten feet high. The smoke-stack during action is lowered into the hold, it being made with telean angle of eighty degrees to the vertical line. It is flat-bottomed, six and a half feet in depth, hull, rests on this with perpendicular sides feet long, extend ng over the sides of the lower hull three feet seven inches, and over each end twenty-five feet, thus serving as a protection to the propeller, rudder, and archor.

by respiration or by the combustion of coals, is sluggish and inactive, as in individuals hull is totally immersed, and the upper one is horses—some, all they had. The snow is sunk 3 feet 6 inches, leaving only 18 inches about two feet deep, with a heavy crust on weighing 47.26 grains. bonic acid and aqueous matter leave as soon tom like a sloop, the deck, which is bomb- and I am in hopes that we shall escape any proof, coming flush with the top of the upper serious loss " From the Tygh we learn that hull. No railing or bulwark of any kind ap- four-fifths of the cattle in that Valley are pears above the deck, and the only things dead. Elder & McDonald have lost five hunexposed are the turret or citadel, the wheel- dred out of five hundred and sixty-five head; house, and the box crowning the smoke-stack. Hubbard & Jeffreys have lost but a few; Ar-The inclination of the lower hull is such that mitage, of Eugene city, has but twenty out of

into the hull.

This turret is a revolving, bomb-proof fort, and mounts two 11-inch guns. It is protected profound knowledge in chemistry and the Phi- by eight thicknesses of inch iron, overlapping so that at no one spot is there more than one inch thickness of joint. A shell-proof flat roof, of perforated plate iron, placed on forged beams, inserted six inches down the cylinder, covers the top. The sliding hatch in this cover is perforated to give light, and for mus-

gear of the engine enabling the gunner to iron slides across the turret, the carriages being made to fit them accurately.

These guns were furnished with 400 The balls were made by forging square blocks ing through her sides.

Gen. McClellan's Address to his Soldiers.

HEADQUARTERS ARMY OF THE POTOMAC, ? FAIRFAX, C. H, March 14th.

SOLDIERS OF THE ARMY OF THE POTOMAC: For a long time I have kept you inactive, but not without a purpose; you were to be disciplined, armed and instructed.

The formidable artillery you now have, had to be created; other armies were to move to accomplish certain results. I have held you back that you might g ve the death-blow to

The patience you have shown, and your confidence in your General, are worth a dozen victories. These preliminary resul s are now

and hat all I do is to bring you where I know of royalty in Europe.

you wish to be-on the decisive battle-field. It is my business to place you there.

I am to watch over you as a parent over his children, and you know that your General loves you from the depth of his heart. It shall be my care, as it ever has been, to gain success with the least possible loss, but I know that if it is necessary, you will willingly follow me to our graves for our righteous cause. God smiles upon us. Victory attends

I would not have you think that our aim is to be obtained without a manly strugg'e. I will not disguise it from you that you have brave foes to encounter, foemen well worthy of the steel which you will use so well .-I shall demand of you great and heroic exertions; rapid and long marches; desperate combats and privations. We will share all these together, and when this sad war is over we will return to our homes and feel that we can ask no higher honor than the proud consciousness that we belong to the army of the

GEO. B. McCLELLAN, (Signed) Major General C. mmanding.

Loss of Stock in Oregon.

The accounts of the loss of stock in Oregon the bow projecting and coming to a point at from the effects of the cold, stormy weather during the winter, and particularly in the one hundred and twenty-four feet long, thirty- mon h of February, represent greater destrucand sharp ends, five feet high, forty feet four sad tales about the losses sustained by stock state. The Dallas Monitor of March Ist,

Jeffreys' agent writes to him from the Ya-The sides of the upper hull are composed of kima Valley that the "stock is still dying; an inner guard of icon, a wall of white oak not from starvation but from disease. Ca tle thirty i ches thick, covered with iron armor in good order l'e down and die, and from this fact I conclude there is some disease among When in readiness for action, the lower them. The Indians have lost a great many above water. The interior is open to the bot- top. But few of your cattle have died as yet a ball to strike it in any part must pass two hundred and fifty. Solomon Jefferys exstrike an inclined iron surface at an angle of main on the ground ten days longer, every about 10 degrees. In the event of the enemy hoof in the Valley will be lost. The Indians boarding the battery they can do no harm, as report everything dying at Warm Spring Rethe only entrance is at the top of the turret or serve. The settlers are entirely out of feed citadel, which cannot ea ily be scaled, and in the Valley. The cattle on the various even then only one man at a time can descend creeks in the vicinity of the Dal'es are all dying off. On Three Mile creek cattle that have been fed for weeks back are dying.

The following is from the Statesman, published at Walla Wa'la:

Out of the thirty thousand head of cattle supposed to be in this Valley last Fall, it is doubtful whether five thousand head are living, and the numerous bands of sheep have almost disappeared. Out of one lot of seventeen hundred only three hundred are alive. At a moderate estimate, this Valley alone has sustained, by less of stock, a loss of one million of dollars. The horses and mules have fared better, because they were better cared for, and this winter's experence has proved them much better calculated to endure the

Troubles of an Artist.

A Vermont artist gives an account of his of iron, which were afterward turned in the experience in taking photographs. One day that it will only bear the prese ce of pure air In some of the thunderstorms which passed lathe. Cast-iron shot would break against a green genius walked into his saloon and ex-"What's that picture on?"

> "The sun," replied the photographer; "I took a view of its surface some time since, and it is said to be very accurate."

"I reckon it is. Now, said he, the sun, if I recollect right, is several millions of miles way from here--aint it?" "Yes," said the photographer.

"Wall, you are just the man I want; give me a good pictur of my brother S.m, while I wait for it." "Certainly," said the artist; "bring him

"I can't," was the reply. "Why, where is he?" asked the daguerrean.

"Well, he's in Boston to-day." "How can I get his picture at Boston?"

"Well, look here, sa d the rustic; you must be an impo-tor, you must! You kin take a likeness of the sun, which is millions of miles away, and yet can't give me a pictur of brother Sim, who is only two hund ed miles off. Yeou git out!"

The countryman walked off disgusted, and left the photographer in no very pleasance mood for the next visitor.

- A Methodist preacher was recently aroften produces a fatal disease. The talent of success is nothing nore than rived, and I know that I can trust in you to rested in a village of Con ecticut on the charge Yet, how often remains well-meant advice doing what you can do, well, without a share save our country. As I ride through your of steeling a ham. When the officer seized

-The Europeans laugh at our great battles where so many men fire away at each other for days and nobody is killed.