WILLAMETTE FARMER.

Millamette Farmer.

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SALEM, FRIDAY, NOV. 10, 1876.

Written for the Willamette Farmer.] The Indestructibility of Matter.

BY A. F. DAVIDSON.

We learn, like lawyers go to heaven, by degrees. The child lisps, stam.ners, and, after repeated trials, learns to speak. It learns with difficulty, makes many mistakes, falls into errors, and only after long experience does it acquire anything like order, precision, and accuracy. Our first impressions in early life, before our experiences have become organized, are often wrong. We have to unlearn what we had learned, and, as a consequence, discard our old notions, and replace them with new and better ones.

Matter, long ago, and even now, especially among the unlearned, is regarded as being st once something, and yet nothing; as being made from nothing, and passing into nothing. This crude notion, however erroneous it may be, can only be overthrown by gradual accumulation of counter experiences This takes time, wearisome toil, long-continued labor, with patience in investigation, and a comprehensive grasp of phenomena of all orders. No single order, mode, or law of phenomena can explain all the facts .--Early views are often narrow, and narrow views are false, in so far as they do not cover the whole field. The chemist, the physicist, and the physiologist accept as an a priori truth the datum that matter is indestructible. The chemist finds, though matter may be changed, it is still matter. He combines ox-ygen and hydrogen, and forms water; the water he evaporates, and it passes off as vapor, but is not lost, for, when ascending to a cold stratum of air, it condenses, and falls to the earth, or is held in solution in the air .-All his experience goes to show that matter is, in its essence, indestructible. Hence he lays it down as an incontrovertible truth that matter is ; and, if it is, it must have been ; and, if it is, and was, it inevitably will beis indestructible.

The physicists and physiologists, in their investigations of the orders of phenomena, find all their experiences coincide with, but never against, the accepted a priori truth, that matter is indestructible. When, in doubt of the a priori truth, they immediately set up an investigation through analysis, or synthesis, or both, and prove the a priori truth by an a posteriori, and, finding the a priori sustained by the a posteriori, it is set down as established.

Hence, then, the postulate that " matter is indestructible" is true, for the clear reasons that "experiences prove it so, and no coun-ter experiences disprove it," scientifically speaking.

How, then, do we know what matter is ! We only know matter through its power of resistance. We place our hand against a tree, or any other solid, and what is the result ? It resists. Then we know matter by its resistance. We place our hand against, or on water, or other fluid matter, and, if we press with sufficient force, we displace or remove the fluid, because our persistence is greater than its resistance. Here we see that gravitation, cohesion, attraction, repulsion, are only modifications of persistence and resistance, and are derivative from force: a strong force overcomes a weak one.

Clearly, then, our knowledge of matter is its resistance presented to us through the persistence of force. Thus, then, it is the indestructibility of force presented to us in the form, mode, or state of matter, which produces resistance, recognized by us. A condensed mass presents a complete resistance, as mineral, rocks, earths, woods, &c.; considerable resistance; air, and other gassous matter, presents still less resistance.-What is it condenses matter ? Is it gravitation, cohesion, or other attractive forces ?-Are not all of these modes of motion ?-modifications of the persistence of force, as was observed above? Then, an inexorable logic brings us down to the primordial experiences of force: force, deep down, is at the bottom of all motion, terrestrial as well as celestial. Motion has its rhythm, and rhythm initiates the beginning and ending in all phenomena. Rhythm is a sequence in all motion . The nsture of all motion is to "follow in the lines of least resistance." Our knowledge of motion is from "a thing moved." If all matter was still-an impossibility-we could have no knowledge of motion, for the clear reason that nothing would be in motion. Force, ever persistent in matter, keeps it in motion, swiftly or slowly. It is, then, the persistence of force in matter that enables it to resist. Matter has two inseparable elements, re sistance and extension. Resistance is primary, extension is secondary. If we abstraot coexistent resistances from body, mattor disappears. Inertia, there is no such thing-cannot be; for, from the sun and satellites, down to protoplasm, all are in motion. Everything is either integrating, or disintegrating ; and, based in the persistence of force, must ever be so. Matter, motion, time, and space, are ultimates: but force is the ultimate of ultimates, for all these are dependent on force. All bodies are made up of small particles called molecules, and these are again composed of atoms. The atoms are held together by two opposing systems of forces, called molecular forces. Molecular forces are divided into attractive and repollent forces. Heat is a repellent force.

into solar space, filled more or less with electricity. Here, then, is the source of elec tricity which pervades stellar spaces, and floats around the planets, and on our planet aids in the formation of our auroras, nocturnal streams of light, &c.

What a deep, a vast, a profound question is the "action of forces" throughout the "vast domain of matter." The quantity of -IT IS INDESTRUCTIBLE.

When we consult those great savants and Stewart, Newton of Yale College, Faye, Proctor, Kirchoff, Bunsen, La Hire, Arago, De la Rue, Fizeau, Faucault, Meyer, Joule, Grove, Helmholtz, Faraday, Ampere, Peltier, et al., our ideas rise at once from a low, to a higher, atmosphere of thought, and weak indeed must be the intellect that cannot rise above the fogs of superstition, the clouds of darkness, and the night of gloom, which prevailed among our nomadic, ignorant, and uncivilized ancestors!

Success in Life.

In these days of great fortunes, and in our haste to become wealthy, we are in the habit of deeming those men who have been fortunate in accumulating a vast deal of this world's goods, as having attained success in whow it is so engrossed in acts of charity to secumulate a fortune save in the blessings and ambition dictate. Yet how we praiss difference whow it here heavy conton gooder. The present status of the organization I dare bounded fellow-feeling and benevolence, whose time is so engrossed in acts of charity that they have neither time nor opportunity to accumulate a fortune save in the blessings life. Among these luminaries, or self-made to accumulate a fortune save in the blessings

and thanks of those whom they have assist ed. What parent ever speaks of, or advises his son to follow in the wake of such pure philanthropists as John Howard, Elihu Bnrritt, and others of the same class? We be lieve not many, but in their stead the money kings of the land and devotees of mammon are pointed out as true types of manhood and as worthy of emulation. In view of these facts isn't it about time that we were getting hold of different ideas of succe an in order that we may inculcate them into the minds of rising generations.

GEO. WATKINS.

"Snug Farmers."

I quote our caption from memory, but am ouite sure I am correct. What is the meaning and significance of this expression?

"The primary meaning of snug is "tight handsome." but in this connection, used in a good sense, and suited to decide the whole class of farmers, this meaning will hardly apply. The best farmers never get "tight." and they are not all "handsome." Another meaning of snug is "neat." This is pecua lass condensed mass, as water, presents diarly appropriate in its application to the good farmer. On his premises neatness and order everywhere prevail. The house prop er is under the management of the wife, but the cellar must come under the management of the husband. There he stores his vegetables, and he knows it is of the utmost importance to the health of the family that the cellar bottom be cleared of all foreign matter-such as decaying potatoes, beets and cabbages-and that the walls be frequently whitewashed and cleansed. A neat and orderly cellar is one of the best indications of a snug farmer. If the good housewife can have such a cellar in which to deposit her milk-pans, she will cheerfully guarantee a neat pantry, kitchen and dining-room. The snug farmer is also neat in his personal habits. Though clothed in home-spun garb, suited to his occupation, he is so near and orderly that it becomes a "royal robe" to him. He remembers that he is a gentleman, if he is a laboring farmer, and a fit companion for a tidy wife. And he is neat and orderly in all his arrangements about the house, barns and sheds. His dooryard is not strewn with sticks and stones and underbrush, but is neat and orderly. His unused tools are all under cover and in their places, so that he can find them at pleasure. His barn is "swept and garnished," and his animals are combed and curried with the utmost care. His dooryard fence is not made of rails nor siab-wood, but more likely of pickets in some form, to indicate taste and culture.

the sun. At every irruption of the sun, im-mense quantities of hydrogen are expelled thus diminish the taxes. Such a farmer is nerves. Persons doing much brain work not only his own children, but the children of his neighbors, because intelligence and virtue in the community will raise the value of his farm. He understands that all improvements that affect the public good promote his own personal welfare, and the wel-

fare of his children. Now I ask my readers to look about over matter remains always the same. It may be the community, and see if they do not find condensed or expanded, but never destroyed the best farmers and the most thrifty and independent farmers in that neighborhood where the most money has been expended scientists, Tyndall, Huxley, De la Rive, in improvements; in churches, schools, pub-Masi, Loomis, Sir John Herschel, Donati, lic buildings, highways, parks and fountains? The beautiful village is always surrounded by an intelligent, cultivated, enterprising and public-spirited agricultural population, and their sharing and aiding in public improvements has made the farmers and their snug farms what they are .-- Cor. Western Farm Journal.

Letter from A. J. Dufur.

PHILADELPHIA, Oct. 15, 1876. C. P. BURKHART:

C. P. BURKHART: Dear Sir.-Yours of 3d inst. is noted, and right glad am I to once more hear from you, but sorry you could not come on to the Cen-tennial. Every thing coming from Oregon has taken the highest award, and Oregon stands to day credited as one of the most productive states and desirable locations in the Union. I could have sold thousands of bushels of Oregon grain for seed if I had had it here, and have given a multitude of peo-ple your address who wish to order it for seed.

Good Recipes ..

PLEASANT HOME, Oct. 29, 1876. ED. FARMER: Being a reader of your valuable paper, I have taken the liberty of sending you a few very valuable recipes that have tested imany times and they do just as they are recommended. If you think them worth inserting in your Household Department, you are at liberty to do so with my JENNIE A. STEPHENS. thanks.

To PICKLE GREEN CORN .- Cut from the To PICKLE GREEN GORN.—Cut from the ear freeh green corn. Pince in a stone jar as thin layer of ealt, then a layer of corn, then another light layer of salt, and so on till the jar is filled. This is an excellent way to pre-serve corn, and saves the expense of canning, and cannot be told from corn fresh from the field. Experienced house-wives have re-marked, when eating my pickled corn: "where did you get green corn this time of the year?" Try it and you will be well re-paid for your little trouble.

A GOOD SUMMER BEVERAGE .- A small hand-ful of hops tied in a thin muslin cloth: a small piece of sasfras bark. Put them in a small piece of sasfas bark. Put them in a three-gallou jar and pour over them a gal-lon of bolling water; then fill up your jar with cold water; when milk-warm, add a pint of good sponge (the same as you make for bread) stir well, and sweeten with syrup or sugar. Keep in a warm place until it has worked nicely, then set away to cool. When cold it is ready to drink.

Celery is the greatest food in the world for SADDLERY, willing to share the expenses of educating find it invaluable. In cities, where the brain and nerves are called to severe exercise, people hunger for it, and the demand for it grows so that ignorant people cannot understand why it should be so. It seems as though pature, in her quiet way, finds and materializes out of herself food or recuperation for all parts of the physical that is exhausted in the demand for progess Where people work their muscle more than their brains, beans, corn, meat, and such food is most in demand, and celery is not in much demand. But in cities, where brain and nerves are overworked, appetite elamors for something that will repair the waste and do the weary parts the most and quickest good .

> In one of his recent letters to the Tribune M. Arsene Houssaye describes the artistic treasures of M. Thiers, the ex-President of France, and that paper remarks that in his love of art there is a striking resemblance between M. Thiers and the late Senator Sumner. But the difference between them is very great. M. Thiers is renowned for his exquisite taste and the value of his collection; but Mr. Sumner's taste was so very defective that the collection of works of art which he bequeathed to the Boston Athenaeum had so little value that the directors of that institution refused to give them houseroom, and disposed of them at auction. M. Thiers has a genuine love for art and a thor-ough knowledge of the value of artistic objects, but Mr. Sum ner possessed neither. Independent.

CENTAUR LINIMENTS.

220

[Letter from a Postmaster.]

"Messrs J. B. Rosz & Co.: "My biotors, Liu., Dec. 1, 1874. "My wife has, for a long time, been a torrible suf-ferer from Rheumatism. She has tried many physi-claus and many remedies. The only thing which has given her rollef is Contaur Lluiment. I am prepared to say this has cured her. I am doing what I can to extend its sale. * * W. H. RING."

ceived, of wonderful cures effected by the Centaur Liniment. The ingredients of this article are pub lished around each bottle. It contains Witch Hazel, Mentha, Arnica, Rock Oil, Carbolic, and ingredients hitherto little known. It is an indisputable fact that the Centaur Liniment is performing more cures of Swellings, Stiff Joints, Eruptions, Rheumatism, Neuralgia, Sciatica, Caked Breasts, Lock-jaw, &c., than all other Liniments, Embrocations, Extracts, Salves Ointments, and Plasters, now in use,

For Toothache, Earache, Weak Back, Itch, and Cu neous Eruptions, it is admirable. It cores burns and scalds without a scar. Evtracts poison from bite and stings, and heals frost-bites and chilblafne, in s short time. No family can afford to be without the ataur Liniment, white wrapper.

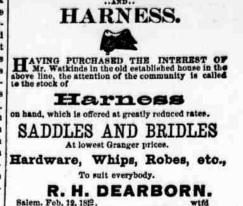
The Centaur Liniment, Yellow Wrapper, is adapted to the tough skin, muscles, and flesh of the animal creation. Its effects upon severe case of Spavin, Sweeney, Wind Gall, Big Head, and Poll

Evil, are little less than marvelous Messre, J. McClure & Co. Druggists, cor. Elm and Front streets, Cincinnati, O., say :

"In our neighborhood a number of teamsters are using the Centaur Liniment. They pronounce it su-perior to anything they have ever need. We sell as high as four to five dozen bottles per month to those teamstore."

We have thousands of similar testimanials. For Wounds, Galls, Scratches, Ring-bone, &c., and for Screw Worm in Sheep, it has no rival. Farmere, Livery-men, and Stock-raisers, have in this Liniment acdy which is worth a bundred times its cost. Laboratory of J. B. Rose & Co.,

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13

Mrs. Rohrer's New Remedy FOR THE LUNGS IS MEETING WITH WONDERFUL SUCCESS!

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P. C. SULLIVAN.

ATTORNEY AT LAW. OPERA HOUSE, SALEM.

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Sept 18tf

E. SHEIL, M. D.,

Agent S. F. M. Co

Late discoveries show us that a repellent force is in the sun. This goes far in demonstrating the unity of all composition; for, if there is a repellent terrestrial force, it must have been derived from our central luminary. This repulsive force acts only on highly rarefied matter, as comets, nebulous fields, He sees that everything that tends to make Bolman's Disck, Commercial St., three doors north of dress streams of debris, and the outer hydrogen of the neighborhood or town more attractive the Post Office, SALESI, Or. apisy sees

The snug farmer has a snug little farm. Everything about is convenient and suited to his purpose. Every field is cleared of its stone and brushwood, and laid open to the cheering sunlight and the gentle rains. The fences are all in order, and every change in the weather or season is anticipated, so as to enable him to co-operate with nature in securing the productiveness of the soil.

And the snug farmer is a public-spirited man. He is interested in all public improvements. Sidewalks and shade trees that reach beyond his own dooryard interest him.

James Knox, who gave his name to Knox College, Galesburg, Ill., and who was at one time member of Cougress from that district, died on Monday last. He was a graduate of Yale of the class of 1830, and at one time gave \$10,000 to his alma master.

We learn that the grand jury in the case of Emerick, charged with the murder of a man found a true bill charging the defendant with murder in the first degree. Emerick had been out on bail, the county court having held his crime to be of a lower grade.

A man named Larry O'Nell was arrested in Linn county last Sunday, and has been sent to Douglas, where he is to be called upon to answer a charge of bigamy.

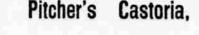
To Laclies.

MRS. DR. CRAIG is now prepared to re ceive patients at her office, in Satem. During the past year she has had extensive practice at Dr. Adams' popular Medical Institute at Portland, in treating ladies, and feels confident of affording relie in most cases of a chronic character. Special attention paid to female weakness and nervous prostration In connection with her treatment, she nees the cele prated Medicated Electric Vapor Baths, which aid vastly in effecting cures. Office and reside s. c. curner of Center and Summer streets, Salem.

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Dr. L. S. SKIFF,

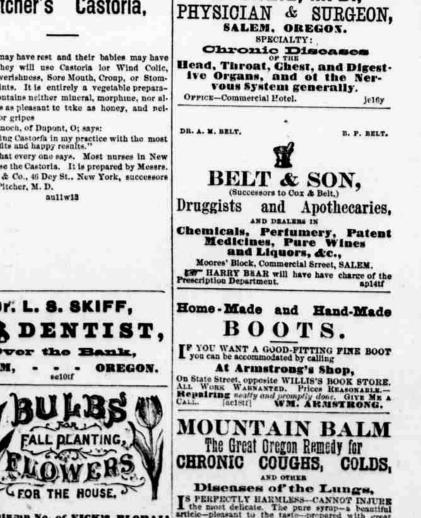
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