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THE object of experiment stations of the agricultural department is to experiment and teach, to make a business of discovery for the use of farming, to promote agriculture by scientific investigation and experiment, and to diffuse as well as increase the knowledge which improves farm practice and elevates farm life.

JOAQUIN MILLER is furnishing the New York Independent letters descriptive of Oregon. He deals briefly with the Willamette valley and Salem:

"I came down the great Willamette valley from Eugene, 'the heart of Oregon.' And I came down through one continuous and uninterupted Eden. These green woods! Oh, the glorious, restful green woods and green valleys and green hills after the glare of the fervid California sun! This is surely the most restful land the traveler ever saw. The eyes rest, the soul and body rest; for beauty and prosperity possess the land, look where you may. Salem, the capital of Oregon at present, is prosperous, very prosperous, and very, very pretty. One thing about these Oregon towns that makes them more than ordinarily beautiful is their abundant greens. Often some of the streets in the best ordered of these young towns have four rows of trees, as on the broad avenues of Washington City."

AERIAL NAVIGATION.

The problem of air navigation is receiving more attention now than ever before. Nor is it "cranks" only who are working it. Mechanical engineers of ability and reputation are devoting time and thought to its solution. That some one will work it out at a not very distant day is not at all impossible nor even improbable. It is simply a question of increasing power without increasing the weight of the apparatus by which the power is developed. Just how much the ratio of power to weight must be increased we do not venture to say, but there are no sufficient grounds for asserting that such increase is impracticable. The solution of the problem may be found in improved engines and boilers, or in new fuels or in storage batteries, or in some yet unexplored part of the field of electric force. It would be rash to predict just how success will be reached, but it would be still more rash to insist that it never will be reached.

The successful air ship will, it is safe to say, be a large structure, very light in weight compared with its strength, but yet many times heavier than the air which it displaces.

Attempts to navigate the air by means of gas-inflated receptacles have been persisted in through a hundred years, but no real success has been reached. Such devices are but as feathers in the wind. All such attempts are in the wrong direction. A bird can fly—not because it is comparatively light in weight (for it is not), but because it is strong. Its breast muscles, by which its wings are operated, are of immense proportionate size, and the rapid circulation of its blood supplies these muscles with abundant stores of energy. Of all living creatures the vital energies of the bird are the most intense, and it is, therefore, able to produce the power required to sustain its body in and propel it through the air.

The successful ship will not be a bag of gas nor an exhausted receiver, but a structure having the strength of steel, and carrying machinery of comparatively little weight, but capable of developing enormous power. It will lift itself from the earth and hold a level flight through space because of the tremendous force with which the air is beaten by its huge whirling fans, or the blades of its swiftly revolving screws. It will be able to maintain its course against those currents of the aerial sea, the winds. And it is not unlikely that the first successful voyage through upper air will mark the farthest limit of man's achievements in the struggle of the ages to subdue the realm of nature and bend it to his uses its most unattainable forces. There will then be no new field for the mechanical engineer to conquer.

THE NEGRO POPULATION.

The next census will dissipate many errors that have grown out of comparisons made between the census of 1880 and 1870. The most prominent misrepresentation that will be corrected will be the one that asserts the phenomenal growth of the negro population of the country when compared with the whites. The comparisons of the next census will be made with those of 1885, the only approachable correct census as to population or anything else made in the history of the government. The observation of mortality tables, made more complete during the last ten years than ever before, shows that the negro population has a far higher death rate than the whites. In Washington it is nearly double that of the whites, and yet this district has been fifty termed the paradise of the negro. Nowhere else in the civilized or uncivilized world is he as well paid for his labor, as well clothed, as well housed, as well fed. And yet the death rate of the negro, month after month and year after year, is nearly double that of the white man. It is so in every city of the country, and in nearly all southern cities where statistics are kept the ratio of death is larger for the negro than in Washington. The birth rate of the negro population is difficult to obtain, but it does not greatly exceed in cities that of the whites. From all that can be learned from health and mortality statistics kept in cities it is the best opinion that the negro population does not increase proportionately with the whites, and that the next census will show that in the whole country the importance of the negro as a factor in our population is on the decrease.

Plenty Left Over.

In a certain church in Ireland a young priest was detailed to preach. The occasion was his first appearance, and he took for his text "The Feeding of the multitude." He said: "And they fed ten thousand people with ten thousand loaves of bread and ten thousand fishes." An old Irishman said: "That's no miracle; begorra I could do that myself," which the priest overheard.

The next Sunday the priest announced the same text but he had it right this time. He said: "And they fed ten thousand people on ten loaves of bread and ten fishes." He waited a second or two and then leaned well over the pulpit and said: "And could you do that Mr. Murphy?"

Mr. Murphy replied: "And sure, your reverence, I could." "And how could you do it, Mr. Murphy?" said the priest.

"And sure, your reverence, I could do it with what was left over from last Sunday."

Aerial Flight.

Edison believes that the time is coming when transportation through the air will be as common as terrestrial carriage. There will be railroad lines in the sky—or steamship lines more properly—trains of convey crossing the continent. He sees but one drawback to the adoption of the practice, and that is the ease it will afford criminals to escape from any point where they have committed a crime. It will not then be possible to intercept them with wires as now. He thinks we shall then see more crime. But Tom forgets that the inventions which we owe to him and others enable us now to detect and prevent crime quite as readily as when criminals could only escape on horseback or afoot. Science keeps pace of need and demand. Murder and all other crimes "will themselves out."

A Model Farm.

The Georgia Southern railroad, has determined to establish a model farm on its line as an advertisement of that section's tributary resources. The farm is intended mainly to show what can be done on the soil and in the climate of that section. But it is expected it will serve another purpose, perhaps, more thoroughly, if less conspicuously. It will be a model farm for the farmers already living in that section, and it will teach them new ideas, afford them new incentives, lift them out of the rut of one cropism upon the high plane of diversification and prosperity.

The Small Coins.

The national new-leaders' association has resolved to petition congress to re-establish the half-cent coin, in order to guard retail news-dealers against the loss of half a cent on many small purchases from wholesalers. This infinitesimal coin is not likely to be popular on the Pacific coast for some time, as the era of one-cent pieces still hesitates about lingering on these shores. As the "bit," dime and nickel have superseded the "two-bit" monopoly, the American penny will shortly make its way here numerously, and claim a place in every till and cash register. A cent coin is a useful member to our decimal currency, and should be encouraged as convenient and economical.

"Good-By"

We say it for an hour or for years; We say it smiling, say it choked with tears; We say it coldly, say it with a kiss; And yet we have no other word than this— "Good-by."

We have no dearer word for our heart's friend. For him who journeys to the world's far end, And sends our soul with going; thus we say, As unto him who stops but o'er the way— "Good-by."

"SCRAPS."

Knit goods—Fine tooth combs. A current remark—I must make some jelly this fall.

It is queer but a lively bolt often results in a dead-lock.

Taken for Standing Bear—a boy arrested for bathing in the river.

Boarding-house people ought not to expect dressed beef in hot weather.

It is very natural for an officer to be a little peppery when he musters his men.

Individual sugar and cream receptacles of cut glass are a delight to the housekeeper's heart.

The title of "Old Maid" does not now attach to a lady until she has passed her thirtieth birthday.

Happy father—Joe, old boy, give me suitable names for my twin babies. Joe—Are they boys or girls? Girls. How will Kate and Duplicate do?

It is proposed in Fremont, O., to establish a school in honor of the late Mrs. Hayes. The school is to be given the name "Lucy Webb Hayes Seminary."

Apollo is said to be the first gentleman who ever struck a lyre. If he had only hit him a little harder we might not have so many magnificent liars at the present time.

Johnny Dumpey (with inflated paper bag)—"Sh-h! See me but 'this paper bag by grandma's ear. Grandma (after the explosion, placidly laying her knitting in her lap and looking toward the door)—Come in.

H. C. Fick, the millionaire of Pittsburg, who virtually controls the great coke industry of Pennsylvania, was once a messenger boy. He has contrived to make good time running up the stairs of fortune.

A new work on evolution denies that man was evolved from the monkey, but on the contrary asserts that man and monkey both came from the same parent stem. They represent the two stages of development, one upward and the other downward, of the human species. He figures out that the prehistoric being who was the father of the human race, as well as of the monkey tribe, was a Chimpanzee.

While trudging along one day alone a soldier met a Methodist circuit-riding, whom he at once recognized as such, but affected ignorance of it. "What command do you belong to?" inquired the preacher. "A Texas regiment in Van Dorn's army. And yourself?" "I belong," solemnly replied the preacher, "to the army of the Lord." "Then, my friend," said the soldier, "you've got a very long way from headquarters."

Cremation as a means of disposal of dead bodies is growing slowly but surely in popular favor. It is among the educated "classes" that the most converts are found and this is a good sign. For the educated have from time immemorial led the ignorant by the nose. Certainly the adherents of cremation have the strongest argument. If it were adopted instead of the present method of burial, the cemeteries, these breeding places of death and pestilence, would be no more. Men would no longer shudder at the thought of the hideous putrefaction of their bodies after death. The horror of burial alive would no longer exist. The immense sums spent in funerals would be dispensed with. The pomp of our present funeral ceremonies would give way to that simplicity which should go hand in hand with death.

A SOUND LEGAL OPINION.

E. Rainbridge, Munday Esq., County Atty., Clay Co., Tex. says: "Have used Electric Bitters with most happy results. My brother was very low with Malarial Fever and Jaundice, but was cured by timely use of this medicine. Am satisfied Electric Bitters saved his life."

Mr. D. I. Wilcoxson of Horse Cave, Ky., adds a like testimony, saying: "He positively believes he would have died, had it not been for Electric Bitters."

This great remedy will ward off, as well as cure all Malarial Diseases, and for all Kidney, Liver and Stomach Disorders stands unequalled. Price 50c, and \$1. at Daniel J. Fry's Dispensary.

A Chicago faith-healer refused to treat a man for dyspepsia because he would eat pickles.

In spite of his far-fetched criticism, William Swindell of Allegheny City, Pa., has made a fortune as a contractor.

Take Hood's Sarsaparilla 100 Doses One Dollar

The Chief Reason for the great success of Hood's Sarsaparilla is found in the article itself. It is meant that wins, and the fact that Hood's Sarsaparilla actually accomplishes what is claimed for it, is what has given to this medicine a popularity and sale greater than that of any other sarsaparilla or blood purifier before the public. Hood's Sarsaparilla cures Scrofula, Salt Rheum and all Humors, Dyspepsia, Sick Headache, Biliousness, overcomes That Tired Feeling, creates an Appetite, strengthens the Nerves, builds up the Whole System. Hood's Sarsaparilla is sold by all drug stores. \$1.50 per box. Prepared by C. I. Hood & Co., Apothecaries, Lowell, Mass.

It may give many to know "First in war, first in peace and first in the hearts of his countrymen" is a misquotation. The correct words, "First in war, first in peace and first in the hearts of his fellow citizens," are from a set of resolutions on the death of Washington, prepared by General Lee and adopted by Congress.

Sitting on the Safety Valve. Many are they who have laughed at the story of the green steamboat fireman who sat on the safety valve to prevent it leaking. Yes thousands are repeating his folly every day. They are troubled with blotches, pimples, eruptions, salt rheum, boils, carbuncles, ulcers and old sores, and are contenting themselves with suppressing the symptoms without removing the cause. They sit on these safety valves by which nature is driving out blood impurities, instead of using Dr. Pierce's Golden Medical Discovery, which cures by removing the cause, which is in the blood. It is a wonderful blood purifier and invigorating tonic.

Do you think the proprietors of Dr. Sege's Catarrh Remedy would offer, as they have done for many years, a standing reward of \$500 for a case of catarrh which they cannot cure, if they did not positively know that the remedy will absolutely and permanently cure catarrh. Sold by druggists at only 50 cents.

"Well, Mr. Assessor, what are you going to make out of your boy?" "I think he will do for a policeman, because I can never find him when I want him."

The immediate symptoms of Dyspepsia, or Indigestion, are a distressing sense of weight, oppression and fullness in the stomach, heartburn, loss of appetite, flat breath, belching, burbling, nausea, pains in the shoulders and breast. Dr. HENRY'S Dandelion Tonic promotes healthy digestion and removes all unwholesome humors, sold by D. W. Matthews & Co.

The most original swindler of the day is the one who has been telling the colored people of Georgia that the world will come to an end August 10th, and has sold 150 pairs of "angel wings" at \$10 a pair.

THE NEW DISCOVERY. You have heard your friends and neighbors talking about it. You may yourself be one of the many who know from personal experience just how good a thing it is. If you have ever tried it, you are one of its staunch friends, because the wonderful thing about it is, that when once given a trial, Dr. King's New Discovery ever after holds a place in the house. If you have never used it and should be afflicted with a cough, cold or any Throat, Lung or Chest trouble, secure a bottle at once and give it a trial. It is guaranteed every time, or money refunded. Trial Bottles Free at Daniel J. Fry's Dispensary.

This is the latest in the way of prehistoric find in Nebraska: The petrified arm of a prehistoric giant was unearthed recently on the farm of J. B. Male, near Kearney, Neb. The hand was tightly clasped. A young son of Mr. Male, while playing with the curiosity, broke off the fingers of the hand and nine large diamonds fell out. Mr. Male will exhibit the remainder of the giant's body.

A SERIOUS BLUNDER. A Lady Nearly Prostrated by a Patent Medicine. A lady well-known in the Western Addition has been a great sufferer for years with indigestion and dyspepsia. Struck with the testimonials praising Joy's Vegetable Sarsaparilla, she sent for a bottle. The druggist, not having it, talked her into taking another sarsaparilla. As the leading Sarsaparilla use universal blood purifiers, the effect of the emptying of bowels of Potash into a stomach already distressingly delicate was disastrous, almost prostrating her before the mistake was rectified. She then called upon Mrs. Fowler, of 327 Ellis street, whose name was among those cured by Joy's Vegetable Sarsaparilla. Mrs. Fowler said it was true that it had cured her. Again reassured, the vegetable compound was sent for and gotten. The gentle action of its vegetable stimulants upon the liver, kidneys and digestive organs, and its warm stomach tonic, were the very things needed, and she began improving and was heralded self within a fortnight. This sounds like fiction, but the names can be found if necessary.—San Francisco Examiner.

The Best Residence Localities In the city of Portland and other prosperous towns are those owned by men or corporations who have the disposition and ability to improve them.

HIGHLAND ADDITION

THE OREGON LAND COMPANY! And this Corporation is determined to

Make It The Most Attractive Addition

To the city of Salem. They have at this time fifteen teams employed and the contemplated improvements have scarcely begun. It is intended to make the drive leading from Commercial street through Riverside and Highland additions and around Highland Park

THE FINEST DRIVE IN THE STATE

Of Oregon. The line of the Salem Street Railway Company runs through the middle of this addition, and no lots will be more than two blocks distant from the line. Highland Park will in the near future be

THE MOST POPULAR RESORT

ABOUT THE CITY OF SALEM. Lots in Highland Addition are High and Dry and Well Located; Most Excellent Drainage

The soil is black and rich. From all points a fine view is obtained of the public buildings and our highest mountain peaks. Arrangements are already being made for the location of two churches in this addition, and a number of residences are soon to be built. Buildings only of the best class will be permitted. Residence lots within the limits of the city of Salem are worth on an average over \$1000. We can sell you better lots in Highland addition for one-third of the money, and being directly on the line of the street railway they are practically not so far from the public buildings and the business part of the town as the so-called "inland lots."

Buy a Lot in Highland Addition for Three Hundred Dollars,

And let some other fellow pay \$1000 for an inferior lot not so well located. With the difference of \$700 you can build a beautiful cottage, or put it out at a rate of interest that will buy you nearly two thousand street car tickets every year.

OVER 6,000,000 people believe that it is the largest and most reliable seed in the world. Ferry's Seeds. D. M. FERRY & CO. Largest Seedsmen in the world. D. M. FERRY & CO.'s Illustrated, Descriptive and Free SEED ANNUAL. For 1889 FREE to all applicants. Do not let your curiosity without ordering it. Every person using our Garden, Field or House Seeds should send for it. Address D. M. FERRY & CO., Portland, Me.

A PUBLIC BENEFACTOR.

"Who is H. H. Warner, of Rochester, N. Y., whose Safe Remedies, especially Warner's Safe Cure, have attained such success and celebrity at home and abroad?" The question is inspired as much by affection as curiosity, since through his instrumentality hundreds of thousands, in both hemispheres, have been restored to health and happiness.

Hon. H. H. Warner, then, is a leading and honored resident of Rochester, not only, but a prominent and influential citizen of the United States. On several occasions chosen by his party as a National delegate to nominate a President of the Republic, he has been a member of the Republican State Committee and of its Executive Committee. He is a member of the American Institution for the Advancement of Science; President of the Rochester Chamber of Commerce; a successful and upright business man. He has given away fortunes in charities. The celebrated and costly Warner Observatory of Rochester was conceived, endowed, and is maintained by him. His munificent prizes for the discovery of comets has been at once the wonder and delight of the scientific world.

The yellow fever scourge in the South, the Ohio floods, the fire disasters of Rochester and other cities awakened his profoundest sympathies and in each instance his check for from \$500 to \$5,000 swelled the several relief funds. Where other wealthy men give tens and hundreds, he gives hundreds and thousands.

His charities are as ready and magnificent as his enterprises and public spirit are boundless. The world has need of more such men.

An incident led him into the manufacture of medicine. Seized some twelve years ago with what the ablest physicians termed fatal kidney disease, he was miraculously restored to health by what is now known as Warner's Safe Cure. At once he resolved to make known the merits of so potent a remedy, and the consequence is that to-day he has immense laboratories and warehouses in the United States, Canada, England, Germany, Austria, Australia and Burma. Sales of his Safe Remedies are enormous, and their power over disease simply marvellous.

The merit of a production is in exact keeping with the character of its producer. An honest and reliable man himself, Mr. Warner makes honest and reliable medicines—a fact abundantly attested by their phenomenal efficacy and popularity.

SEE HERE! JOHN F. STRATTON & SON. Importers and Wholesale dealers in MUSICAL MERCHANDISE, New York, 43 and 45 Walker Street, and F. Stratton, Celebrated Russian Gut Violin strings, the Finest in the World.

JOHN F. STRATTON & SON. Violin Strings. Our Guarantee—If a dealer receives a complaint, (which he believes to be honest) from any musician to whom he has sold any of these strings, he is authorized by us to give him another string without charge, and all such loss will be made good by us to our customers, without quibble or question. (Beware of imitation.) Dealers will please send for descriptive catalogue. Trademark supplied at lowest price.

A Bargain For Somebody!! EASTERN PROPERTY! To Exchange for

OREGON LAND! A GOOD CHANCE

Northern Pacific Railroad. GREAT OVERLAND ROUTE. TWO FAST TRAINS DAILY! NO CHANGE OF CARS. SHORTEST LINE TO CHICAGO. And all points East via St. PAUL and MINNEAPOLIS.

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Leave Portland at 8 a. m. and 8:40 p. m. Daily arrive at Minneapolis or St. Paul at 9:40 a. m.

FACTORY DIVISION.—Trains leave Front Street at 11:00 a. m. and 8:40 p. m. and arrive at 7:10 p. m. and 5:20 p. m. respectively. Pullman Palace Sleeping Cars, extra day coaches, first palace dining cars, etc. For full particulars, apply to Seattle Ticket Office, 111 First St., or to the Ticket Office, Portland, Oregon. Leave Portland at 8 a. m. and 8:40 p. m. Daily arrive at Minneapolis or St. Paul at 9:40 a. m.