MACHINE BESTS MEN AT CHESS

A GARDEN SANDWICH.

By JACK DUNAWAY.

By JACK BUNAWAY. There's a race on in the sarden, An' the plants are in for fair. An energin' an a-scratubin', Each intent on winnin' there plant the mustard mustered cour-age. Hintin' that they have a race. Said the lettuce, "Let us try it," An' the beanstaik set the pace. Then the pear come poldin' out there in its swiftest, quickest way, An' the pop corn popped into it. Thinkin' for to take the day. The potato vine started runnin', An' the surfiest quickest way, An' the bear then beat the record. "Twas a simple thing to do THI it realized that something Was a-crowdin' on its tread, while the spud, whose eyes were a supple.

open. Saw the cabbage make a head.

......

NEW SOIL ACIDITY TEST.

It is Expected to Prove a Better Way

Than Use of Litmus Paper.

What is expected to prove a more

positive test for soil acidity than the

common litmus paper test, and one

which, because of the cheap and harm-

will be within the reach of the ordi-

nary farmer, has been devised by E.

The new test, it is believed, will be of especial benefit to county represen

cured in from ten to fifteen minutes.

The new method consists of the addition to a sample of soil to be exam-ined of zinc suphide with small

amounts of calcium chloride and wa

ter and boiling the mixture in a flask

held over a small flame, preferably an alcohol lamp. Commercial lead ace-

tate paper, which can be purchased at the drug store, when held in the fumes

of the mixture for a few minutes will turn from light brown to a shiny

black, according to the degree of acid-ity present in the soil. The natural

color of the lead acetate paper is white, hence the discoloration can be

plainly seen and will more accurately

guage the acidity in a soil than will the litnus paper test now in use in

The chemicals are perfectly safe for

the layman to handle, and the com-plete apparatus, including flask and

burner, ordinarily will not cost more

A Dahlia Hint. This is the season to cut back dahlia

stalks. Cut down stem and leave two

leaves, one on each side from the ground. Cutting back forces branches

and gives root strength. Of course it delays the bloom, but what results you

get later in vigorous growth and

abundance of flowers well repays for

Late August and fall flowers are ma-

tured better than those in the hot, dry weather. Cut the stalk with a sharp

knife. Mulch the soil by working grass

cuttings into it and give the top a

the loss of summer bloom.

many sections.

than \$2.

plants.

stronger

University of Wisconsin.

Device That Protests When Human Opponent Cheats.

IT HAS SENSITIVE ORGANS.

Automatic Apparatus Constructed So That Competitor is Obliged to Play Strictly According to Rules of the Game-When These Are Violated Lighted Lamp Gives Warning.

Is the day near at hand when science will be able to create a human being? This question may well be asked when one considers the latest invention of that king of automat inventors Senor Torres y Quevedo, member of the Spanish Academy of Sciences, Senor Torres caused a sensation some thirty years ago by inventing a machine less chemicals used in its operation. which would solve algebraic equations. Then he invented a bailoon which would direct itself and could attain a Truog, instructor in the department speed as great as the fastest Zeppelins. The latest product of this wonderful of soils, college of agriculture of the inhoratory, says a Paris dispatch to the New York Sun, is a machine which plays chess and which seems actually to accomplish the work of a human brain. Senor Torres thus describes his tatives and to field agents of the state solls laboratory, owing to the fact that own invention: it is simple to operate and approximate quantitative results can be se

"It is true that the game which the automat plays is not very complicated, but, nevertheless, for its opponent to win he must know how to play. The automat uses the white king against the castle and the black king. Its game is won in advance, but it must follow a certain course which leads it up to the finish.

On the Watch For Fraud.

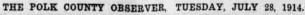
"When the automat's opponent moves the black king the automat begins by seeing if the movement conforms with the rules of the game. If not it protests by lighting a lamp. If the move is according to the rules the automat, taking into account the position of the three pieces, decides what is the best move and then makes it. Thus the game continues until the automat has checkmated the black king.

"If the automat's opponent should make a mistake, as I said before, the automat protests by lighting a lamp. But it will tolerate only three mis-Then all its lights go out, and you may move your pieces as much as you want-the automat has finished. If you wish to begin a new game you invite the automat by a special move-ment to play another game. If it accepts it will turn out all its lights. place its pieces on the board in their original positions, then wait for you to make the first move.

"The old automats, the most cele brated of which were those of Vaucanson, imitated the appearance and the movements of man. Today this idea has been abandoned, and intricate machines, which look like nothing but machines, have taken their places. The self directing torpedo is a good example of an automat. The difficulty does not lie in the work of its helmsman. but in the determination of the move ment to be executed. The muchine deduces this movement from indicators by purely mechanical means. This, In the calculating machines, is the brainwork of the man that the machine accomplish

Sensitive Mechanism

"It is not to be denied that automats can have sensitive organs (monometers, thermometers, compasses, etc., permitting them to recognize the circum-stances which determine their movements, but science refuses to admit that they can possess the analogue of a brain. But I believe I have shown





to Ircland is less than 2,000 miles." says Dr. Bell. "This means that if you go at 100 miles an hour you will cross the Atlantic in twenty hours—less than other. We allowed house while others. a day. We already have machines that leans that has ever been planned could cross the ocean if their engines can keep going for twenty hours. Of course, these are exceptional machines, that carry bubonic plague has been but even the ordinary machines of to exterminated. day make fifty miles an hour with ease.

"Now, a flying machine files faster as you go higher up, because the rarer air offers less resistance to the motion. vation. fifty mile an hour machine flying two miles high in the air-and we have Only t machines that have gone twice as high as that-will fly much faster than fifty These were in the lodging house and miles an hour. Then at an elevation are said to have come from Cuba. For miles an hour. of two miles high in the air there is a four blocks around this house there has constant wind blowing in the general direction of Europe having a velocity anywhere from twenty-five to fifty miles an hour.

America to Europe In a Day

America to Europe in a Day. "As a net result of all these things there can be little doubt that any or-dinary machine that is able to support itself in the air at an elevation of two miles high will attain a speed of at least 100 miles an hour in the direc-tion of Europe, and that means gaing the entremain of the entremain gaing the entremain of the entremain gaing the entremain of from America to Europe in a single be enforced. They are:

day. Calculation shows that, taking all these circumstances into consideration, our best machines should be able to cross the Atlantic in thirteen hours. I hardly dare say it aloud for and restaurants. Every residence and publication. It is sufficiently startling place where food is served must be to know that it is not only possible. but probable, that the passage may be made in a single day. But if, as I imagine, it can be done in thirteen hours you may take an early breakfast in tables grown within 1,000 feet of Newfoundland and a late dinner in Ireland the same night."

Here is a general description of the Rodman Wanamaker transatiantic flying boat, the America, in which Lieutenant Porte will attempt to cross the Cenn

Length over all, thirty-four feet; length of hull, thirty feet: width of hull, four feet; depth of hull, six feet; length of cabin, seven feet; height of the termination of protracted liftiga-tion (ifford Pinchat exchief of the cabin, five feet; width of cabin, four feet: spread upper wing, seventy-four feet: spread lower wing, forty-six feet. Weight, empty, approximately 3,000 pounds, weight, full loaded, 5,000 pounds, Speed, from sixty-two to sixty-five miles per hour in still air. To The purpose of the movement, as set this add or substract speed of wind forth by C. L. Greyson in "Recreation nachine is traveling with or against.

aviation instruments, tachouseters, to ment that this tract of timber is to be show the speed of the two motors; ameroids, to show the attitude of the tonal government to be maintained as machine; wind speed gauge, showing a national forest and training school speed of the machine through the air; in forestry. It literally amounts to an ometers, showing the interal and or inclin gauges, showing contents of tanks. In the other and the strength of merchantable tim-the after part of the cabin are Lieulongitudinal flying angles; fuet and oil tenant Porte's asvigation instruments -his sextant, chart table, gauges for ises to do in less than fifty years' time showing drift, speed over the water, if the present rate of cutting continues.

The Dream Fisherman

He drew a fly across a stream— His heart of hope was full— And as it split a ripple's gleam He folt a sudden pull. A start, a tug, a vigorous rush— His languor all was gone. The world its noises seemed to hush, For, lo, the fight was on!

He listened to the singing reel, He braced himself, and still Beneath his fingers he could feel The keen and welcome thrill. He took no chance; he used great care; He frowned; he grinned with gies. His hopes ran high; he faced despair-What would the outcome be?

Then just as from the water came The shining, dripping prize The boss approached his desk and glared With storn and searching eyes. The cierk hent down like other men To labor close and drear. But thrilled because he'd caught again

That fish he'll catch next year! -Chicago News.

WHOLE CITY IN ODD CRUSADE

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Nets, Traps, Clubs and Poison Used to Exterminate Rodents at New Orleans.

There is the biggest death to all rats campaign going forward in New Oragainst any American rodents. It will More than 50,000 rats and mice were

air offers less resistance to the motion, cents a head. Thousands of men and while the propeller gives the same push boys, black and white, have been with the same power, whatever the ele- chasing up and down the river front As you get into the rarer air with nets, traps, clubs, fire, poison the propeller spins around faster. A and almost every conceivable sort of

Only two well defined cases of the plague have been discovered so far. seen instituted the strictest quarantine. All moving pictures and amusement galleries are closed and street cars are not allowed to stop in the restricted Nor are those who live in it

Prohibition of human occupation of insanitary structures. The rat proof-ing of all buildings and basements. The requiring of screens for all bakeries provided with garbage cans and scavenger service. Prevention of the and dumping of garbage within the city limits. Prohibiting the sale of vege sewer outlets

RALLY TO SAVE REDWOODS.

Gifford Pinchot and Others Start Fund to Create National Park.

Launching a movement to purchase a tract of 20,000 acres of the finest virtion. Gifford Pinchot, ex-chief of the United States forest service; Congress man Kent of California and Charles Willis Ward, both prominent timber owners, have each contributed \$25,000 to a popular subscription fund.

Within sight of the operators are the purchased and turned over to the na cial redwood, the oldest and most reises to do in less than fifty years' time



"Tried and True" is this old reliable outing resort, with a wealth of natural scenery, healthful drives, a splendid beach and numerous near-by points of interest: Lighthouse, Devil's Punchbowl, Seal Rocks, etc.

> Special Low Round-Trip Season Fares Week-End Fares to All Points and Sunday Excursion Fares from Albany and Corvallis.



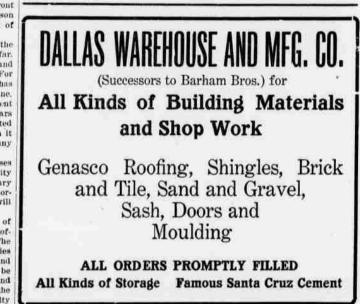
The Exposition Line 1915 DOUBLE DAILY TRAINS

e Albany, daily
e Albany, daily except Sunday1:00 P. M.
e Corvallis, daily
e Corvallis, daily except Sunday
GOOD FISHING STREAMS ALONG THE C. & E.

At Elk City, Morrison, Toledo and along the Yaqui-na river, also on the Breitenbush and Santiam riv-on the East End.

For Folders describing Newport as an outing place call on our nearest Agent.

John M. Scott, General Passenger Agent, Portland ,Oregon.



MODERNIZE YOUR HOME WITH ELECTRIC LIGHT

Electric wiremen now "fish" the wires -walls and ceilings are not harmedfloors are not ripped up except in a closet or out of the way place

The work is done quickly and at so low a cost that small incomes can afford it



good, healthy dressing, Such a mulch prevents baked soff. Besides, it holds moisture between rains. Catch rainwater in a bucket or barrel and use it to water your It gives more nourishment than the spigot variety. Cow manure water forces a strong growth, and when fed to dabilas just at the time buds form the flowers will come

Dried blood spread upon the top soil acts as a fertilizer and gives color to the bloom.

For Tightening Fences

In spite of the best care wire fences will become more or less slack after being up some time. The device shown that this possibility theoretically does herewith will take up this slack in a

not offer the least doubt. Automats can be made as complicated as one may wish.

"I believe that there is no limit in this domain and that theoretically at least the time will come when all factory operations, even those which demand the intervention of engineers, can be executed automatically."

BALDHEADED MATES BEST?

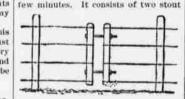
Club of Smooth Pates Meets Rebuff at Start of Inquiry.

The Baldhead Club of America. hendquarters at Winsted, Conn., which holds its next banquet Oct. 29, is seek-ing information on "Why do baldheads make the best husbands?

A woman who signed herself "The Hairy Man's Wife" wrote as follows: "I presume the members of that Baid-head association who are to banquet in Winsted will try to make it appear that they are the most model husbands. My husband is not buildheaded, and no woman could ask for a better husband.

"But I have a buildheaded brother-inlaw and my sister assures me confidentially that he is concelted and thinks more of his own personal appearance and comfort than he does of hers. My answer to your question, Why do baldhends make the best husbands? is 'Because they don't.""

Rings Bell to Keep the Grows Away. In order to keep the crows away Cy-rus Dunham of Skowbegan, Me., has nang a bell in an apple tree close to it is not absolutely necessary, but no it that runs to the house through his bedroom window. In the morning, season will be experienced. As a safe sum of daybreak, when the crows begin guard for the quantity and quality of to visit the field. Dunham pulls the the fruit spraying is vertainly indisstring, and the result is satisfactory. pensable.



WIRE PENCE TIGHTENER.

pieces of wood, to which the wires are firmly fastened, and two long boits with long threads. The bolts pass through the wood and are tightened as occa-sion may require. Several of these tighteners may be placed in long lines of fence wherever it is convenient to put them.

ORCHARD AND GARDEN.

Don't permit any fruit to ripen on berry plants set this season, except on fall bearing strawberries.

Experienced growers do not pick ber-ries for market when the fruit is wet, and they keep the crates in a cool place, out of the sun.

Three years of spraying, pruning and cultivation will bring an orchard that you are ashamed of into a condition that you will be proud of.

Surplus suckers in blackberry or red raspberry patches should be treated just like weeds, leaving only enough shoots for next year's fruiting.

The benefits of spraying are no longer questioned by progressive fruit growers. There may be sensons when one can tell when the pleasures of that senson will be experienced. As a safeDescription of the America's Wings. The wings of the flying boat are

ed of seven sections-a center panel of 10 by 7 feet above the power plant, four main sections (two upper and two lower) approximately 18 by 7 feet and two overhangs on the upper surface measuring 15 by 7 feet each. The shape of the wings is known as the N. P. L. wing section, which, after surance companies, was obtained by experiments at the national physical the Banker-Farmer, published by the laboratory, Teddington, England, was can Bankers' association at Chamconsidered most efficient for this work. palgn, Iil.

The wing frames are built up solidly of ash and spruce, covered with a heavy ribbed silk, which is conted with a special water and fireproof material.

The aerial rudder for turning from left to right has a depth of five feet and a length of four and one-half feet. The flippers, or rudders for steering up Nebraska, Illinois and Indiana are next or down, are located on either side of the main rudder, and their dimensions

are holted direct to the motor shafts. They turn at a maximum speed of 1,250 to 1.300 revolutions per minute.

Stops "Rubbering" at Postcards. In the weekly bulletin issued by Postmaster Fay of San Francisco there was an announcement that "bereafter five demerits will be imposed where it bagangemen want a limit of forty is shown that a distributor is wasting five inches placed as the intgest dimencards or perusing at the pictures on post-sion of a trunk, with the further pro-rision the reverse side of the postcards."

American Association of General Baggage Agents will urge the interstate mmerce commission to consider a plan for the standardization of trunks. both as to size and construction. The

LENT \$519,000,000 ON FARMS.

Seventeen Life Insurance Companies Gave Aid In Forty-two of the States. Seventeen United States life insurance companies carry in farm loans the total of more than \$519,000,000. This data, the first authentic statement of the extent of loans on farms by inagricultural commission of the Ameri-

This great volume of money is distributed among forty-two states and Porto Rico, the only states not listed being Delaware, Maryland, Massachu setts, New Hampshire, Nevada and Rhode Island. Iowa leads with \$100,-000,000 invested, and Kansas, Missouri, in order.

In Convenience In Comfort In Safety In Economy

It will save work-save expense in decorating-keep the air purer-increase the value of your property

Telephone 24, for a cost estimate for wiring your home

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