

NEW SYSTEM FOR ZEPPELINS

Washington — (UP) — Further developments in the difficult art of handling the huge and cumbersome lighter-than-air craft of the Los Angeles, or Graf Zeppelin type, are now being perfected, according to reports made public by the navy department.

Latest mechanical invention to reach a practicable stage is a mobile mooring mast, running on tracks, and cutting down the number of the ground crew needed from 200 to 60.

Last year the navy put into use a stub mast, hauled by a tractor, which was successfully used in handling both the Los Angeles and the Graf Zeppelin. This latest invention operates on much the same principles, but substitutes a mast running on railroad tracks.

Parallel tests are now being made to determine whether the old "crawler" mast, or the newer "rail-mast," is the most practical. Navy officers hope to reach a decision on standard equipment before long.

Both types of mast under consideration, many aeronautical officials said, can be adjusted to handle the giant dirigible Akron now building, which is larger than any other lighter-than-air craft ever handled.

Well, What Difference Does It Make Anyway

Northampton, Mass.—(UP)— How long does it take to strike a bell? Anywhere from 960 millionths to 700 millionths of a second, according to Prof. Arthur T. Jones of the physics department of Smith college, who has made a study of the subject with the aid of electric current and photographic film as measuring devices.

Vibration curves made when a clapper strikes a bell have been photographed by the professor, showing that the fifth partial is the most prominent just after the bell is struck.

Wendel Wealth—and Poverty.

From the New York World-Telegram. "Buy land; never sell." That was the Wendel motto. Piece by piece, plot by plot the acres multiplied—always in the richest area, among the most fabulously increasing land values in the whole western hemisphere. And so the millions grew. Tenants might improve the property if they would. But not the Wendels. Theirs but to hold fast—grim, inactive, unyielding—while the great city, year after year, pushed ahead with its own vast developments, piling million after million upon the value of Wendel land. Though no Wendel lifted a finger. Shades of Henry George! What ammunition for the single taxers in their war on unearned increment!

And so the millions grew. Narrowed lives, starved lives, cruel clamps upon normal human loves and ambitions in the old Wendel mansion. Iron domination of a brother's will until one sister after another submitted, escaped or died. But always the mounting millions. And at last nothing left but a lonely old woman in the battered house on one of Fifth avenue's busiest corners, with her old-fashioned stable and her \$1,000,000 dog-run, living on as one of the city's curiosities until death took her.

Will the millions, spread out among other lives, let loose at last some of the human comfort and happiness that seems to have meant so little in the Wendel calculations? Will providence, in its mysterious ways, work out some compensation?

Going Mechanical.

From Omaha World-Herald. The farm is sometimes compared with the factory, although there are a great many essential differences between the production of raw materials from the soil and processing them into food or fabricating them into clothing.

In one respect, however, the farm is growing more like the factory every day. It is going mechanical at a dizzy pace. Figures compiled by the Kansas state board of agriculture illustrate the trend.

The first tractor census was taken in that state in 1915. It revealed 2,493 tractors on Kansas farms. The number increased gradually until 1920, when it jumped from 3,689 to 14,370. The switch to gasoline power farming has progressed steadily from that time until last year 53,615 tractors were counted. That is nearly one for every three farms in the state.

By 1923 it was observed that combine harvesters were getting numerous and a census revealed 2,796 at work in the wheat fields. Last year the number had grown to 21,303.

This growth in power farming has been accompanied by as steady a decline in the number of horses and mules maintained on Kansas farms. In 1914, the year before the first tractor census was taken, there were 1,071,434 horses and 243,844 mules. In 1920 there could be found but 626,899 horses and 142,019 mules. More than 500,000 horses have disappeared from Kansas farms. Not all of them have been displaced by tractors. Some have lost their jobs to passenger automobiles and farm trucks. With them has gone the market for a lot of Kansas hay and grain.

Q. What is the designation for the gender of a noun which is not determined naturally? A. T. T.

A. Gender is either natural or grammatical. In the latter case there is no necessary coincidence of gender and sex.

No Laughing Matter.

From Tilt-Bits. It was dinner time at the barracks. "Any complaints?" shouted the orderly. "The stew's funny," complained one man. "Funny?" queried the officer. "Then why aren't you laughing?"

Q. What was the most important battle fought on German soil during the World war? F. B. A. A. It was the Battle of Tannenberg, September 1, 1914, in which the Germans under Von Hindenburg defeated a Russian invading army.

Out Our Way



SCIENCE CURES ONION DISEASE AND ENDS LOSS OF MILLIONS OF DOLLARS TO GROWERS

Davenport, Ia.—(NEA)— In 1927 onion growers in Pleasant Valley near here watched their crops turn yellow, curl up and droop, victims of an unknown disease.

In 1930 these truck farmers looked out over solid green masses of onion plants growing in the same fields. This change is a story of modern agriculture's triumph over "Dwarf Yellow," dreaded virus disease of the onion plant.

Not only had this disease invaded the local onion territory, but it was spreading all over the country. It was hard to control and was cutting yields and profits nearly in half. Some growers lost entire crops during 1927 and the year following. In 1928 the crop through the valley was damaged 45 to 50 per cent.

Desperate growers called on plant pathologists at Iowa State college to help them fight this new enemy which was threatening to wipe out their business and even their homes because the soil in the district was fitted peculiarly to onion growing and not to many other crops.

W. J. Henderson, young graduate student in plant pathology, was put in charge of the work under the supervision of Dr. I. E. Melhus, head of botany and plant pathology.

Disease Fully Analyzed. Science of the plant laboratory, facilities of the greenhouse where conditions could be controlled, practical tests in the growers' fields and their knowledge of systematic study of plant ailments were brought by the plant doctors to bear on this problem.

The disease was new, but fortunately plant pathologists immediately discovered its nature. By transferring juice from one onion to another, it was found the disease could be transmitted, thus proving it was one of the virus diseases comprising a large group from which the organism causing the malady cannot be isolated. The organism passes through the finest filter.

Since the disease is not seed-borne,

Federal FARM FACTS

The first increase for many months in the general level of farm prices was reported by the bureau of agricultural economics for the period from February 15 to March 15. The increase was one point—from 90 to 91. A year ago the index was 126 per cent of the pre-war level.

Farmers can look for lower production costs, a tendency toward improvement in market demand and a greater degree of stability in general commodity prices in 1931, according to the agricultural outlook report of the bureau of agricultural economics.

Asparagus is getting to be a valuable crop in the United States, the department of agriculture reports. Its acreage has tripled in 10 years.

Agricultural problems of the world will be thrashed out when the 15th international congress of agriculture meets at Prague, Czechoslovakia, June 5 to 8. Twenty-seven countries will send delegates to the congress. It is expected that delegates from the United States will attend.

Demand for American Farm products in European markets is increasing slowly but steadily, the department of agriculture reports. It may recover sufficiently by the middle of the year to offer a good market for the many surpluses in the United States.

Bureau of agricultural economics is planning a market news service on tobacco. Daily reports will be issued from "key markets" when the season opens in Georgia and Florida about August 1.

Television broadcasts of department of agriculture rural skits are being put on the air once a week by the Jenkins television transmitter near Silver Springs, Md. It is expected that television will be a valuable aid in the department's dissemination of farm information when it is fully developed.

Favorable weather conditions have enabled farmers all over the country to make an early start with spring field work, the bureau of agricultural economics reports. Oats are practically all sown, cotton planting is going forward, corn planting is working up into Kansas latitude, the Dakotas are sowing



W. J. Henderson, young plant pathologist who helped defeat the "Dwarf Yellow" disease of onions, is shown above examining an infected field. The tall bunch of onions on the right is healthy; the small bunch is a victim of the virus disease.

but lives over winter in the bulbs, the search for control measures was narrowed down. Seed treatment would have been of no use. It also was shown that the organism was not soil-borne or transmitted by tools.

Diseased Bulbs Destroyed. Henderson took sets grown in the valley and grew them in the greenhouse. He "indexed" plants; that is, he determined the percentage of infection among onion bulbs in the mother stock. When a grower's lot of bulbs was found to be infected he was advised to destroy them and secure new sets from a disease-free source.

Bulbs found to be disease-free were planted by growers in areas where there were no diseased plants. They then obtained their seed bulbs from these fields. This did away with early infection in the bulbs and cut off source of inoculation.

This practice has been followed for three years and has reduced infection from 45 to 50 per cent in 1928 to only a trace in 1930.

Ability of the onion plants to "mask" symptoms of the disease un-

der certain conditions complicated control of the disease.

Plants which become infected after they are about four inches high do not show symptoms of the disease that year. But the next spring they do and cause other plants to become infected.

Because of this "masking" of the symptoms, it was impossible to go into the field late in the season and pick out non-infected plants for mother stock. However, the next spring the plants growing from bulbs which were infected would show symptoms of the disease early.

spring wheat, potatoes are in the ground in the middle states, and fruit trees are blooming in central valleys.

An improved spark arrester, for use on locomotives running through forest preserves, is being tested by forest service officials as a means of reducing forest fires caused by sparks from locomotives.

Production of flower bulbs is becoming an important industry in the United States. Years ago the majority of valuable bulbs were imported from bulb-growing European countries. Now, however, the industry has been securely established in the United States and producers are turning out as good a grade of bulbs as those imported.

Twenty-one state advisory committees have been appointed by Secretary Hyde to co-operate with the federal committee in investigating and passing on the organization of new agricultural credit corporations or livestock loan associations. The committees will represent the department of agriculture in the distribution of funds appropriated by Congress for loans to individuals for the purchase of agricultural stock.

Q. How many teeth does a dog have? C. T.

A. It has 42 permanent teeth.

thus to sow the seeds of discontent and foment revolution.

Any country which accepts Russian "dumped" products is helping Russia to play her game.

Scotch Lads Shun Love Films.

Children of Scotland are not much more advanced than their parents, declare mothers and fathers in commenting on the film inquiry made recently at Dumfries. When asked which films they like or dislike, 98 per cent of the boys of the public school were against love stories, and 94 per cent of the girls had no use for war, murder or fighting.

By William

"I'M going, anyway"

THE modern Miss needs no "time out" for the time of month.

If you've ever taken Bayer Aspirin for a headache, you know how soon the pain subsides. It is just as effective in the relief of those pains peculiar to women!

Don't dedicate certain days of every month to suffering. It's old-fashioned. It's unnecessary. Aspirin will always enable you to carry on in comfort. Take enough to assure your complete comfort. If it is genuine aspirin it cannot possibly hurt you. Bayer Aspirin does not depress the heart. It does not upset the stomach. It does nothing but stop the pain.

Headaches come at inconvenient times. So do colds. But a little Bayer Aspirin will always save the day. A throat so sore you can hardly swallow is made comfortable with one good gargle made from these tablets. Neuralgia. Neuritis. Rheumatism. Pains that once kept



people home are forgotten half an hour after taking a few of these remarkable tablets. So are the little nagging aches that bring fatigue and "nerves" by day, or a sleepless night.

Genuine Bayer Aspirin tablets cost so very little after all, that it doesn't pay to experiment with imitations!

Slightly Mixed Johnson—So you gave up trying to teach your wife to drive the car? Williams—Yes. When I told her to release her clutch she let go of the steering wheel.

Nor His Toe, Either Lil—Go right in and speak to papa! Are you not master of your soul? Bill—Er-yes, but not master of his sole.

ESTABLISHED OVER 50 YEARS

Cuticura Soap

Protects Your Skin!

Cuticura Soap not only cleanses the skin, but it is antiseptic and healing as well. It has medicinal properties which are most beneficial to the skin—its fragrance is delightful. Try it today, and note its invigorating! Soap 25c. Ointment 50c. and 50c. Telcom 25c. Shaving Cream 25c. Proprietors: Foster Drug & Chemical Corporation, Malden, Mass. Try the new Cuticura Shaving Cream.

Pear Pest

One of the world's strangest wars—man and his enemy the insect against a vegetable plague—is being waged successfully in Australia, where scientists have millions of cactoblastis caterpillars eating and annihilating a prolific cactus plant, known as the "Prickly Pear" which has in the past 30 years made an impassable jungle of 50,000,000 acres of fertile land, more than half again the size of England.—Collier's Weekly.

To keep clean and healthy take Dr. Pierce's Pleasant Pellets. They regulate liver, bowels and stomach.—Adv.

Bring Heat to Homes

A German invention recently put to use in Hamburg is steam heat in tanks under great pressure, from which a home may be heated for a week without replenishing. Vendors travel about the city in winter selling heat, in some instances the same men who sell ice in summer.

Not So Dull

City Youth—And do you mean to say you've never been to New York to see the sights?

Rustic—No; down here we just wait for the sights to come and see us.

Goodness is beauty in its best estate.—Marlowe.

Trip Postponed

"I thought you said you were going away for a holiday." "Yes, but I was let off with a fine."—Dublin Opinion.

FOR FIRST AID SINCE 1846 HANFORD'S Balsam of Myrrh

Used over 100 years for sore throats, coughs, colds, influenza, etc. Price low, service best. Write for catalogue. Hastings Cannery, McClure, Ill. IF YOU ARE THINKING OF BUYING or selling a business of any kind, write or call GATEWAY BUSINESS EXCHANGE, 295 E. & W. Bldg., Sioux City, Iowa. We pay 10 to 50 Per Cent Interest for your money. No investment. Write for plan. General Investment Co., Loganport, Ind.

Sioux City Ptg. Co., No. 20-1931.

Shy youths might well be forced into worldly contracts early in life. There is no sense in being handicapped all one's days by diffidence.

Soothes restless, wakeful CHILD

THERE are times when a baby is too fretful or feverish to be sung to sleep. There are some pains a mother cannot pat away. But there's no time when any baby can't have the quick comfort of Castoria! A few drops, and your little one is soon at ease—back to sleep almost before you can slip away.

Remember this harmless, pure vegetable preparation when children are ailing. Don't stop its use when Baby has been brought safely through the age of colic, diarrhea, and other infantile ills. Give good old Castoria until your children are in their teens! Whenever coated tongues tell of constipation; when there's any sign of sluggishness,



just give them a more liberal dose. Castoria is so pleasant-tasting; all children love to take it.

Look for Chas. H. Fletcher's signature and this name-plate:

