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### The Testing Of Dairy Products

The price of success is attention to detail. This fact is distinctly emphasized in a bulletin recently issued by the Dairy and Cold Storage Branch of the Federal Department of Agriculture under the title of "The Testing of Milk, Cream and Dairy By-Products by Means of the Babcock Test" and written by J. F. Singleton, Chief Inspector of Dairy Products. Without being profuse Mr. Singleton tells in plain language about all that is to be told of the practical application of the test, the care that should be taken of the component parts of the apparatus, the measurements advisable and the methods that should be employed. The qualities naturally most emphasized are exactness, cleanliness and temperature. The Dairy Commissioner in his introductory says there is nothing fundamentally new in the bulletin but that the contents are presented with such a clearness of diction and the pro-

cesses so aptly set forth that the result is a reliable handbook for those who value information on the testing of milk, cream and so on. A number of exact and plain illustrations lend additional worth to a notable bulletin, the number of which is 45 of the Dairy and Cold Storage Series and that can be had by post—free application to the Publication Branch, Department of Agriculture, Ottawa.

Government of the Entente Alliance presented to Secretary of State Lansing a joint reply Monday to the protest made by the United States. It declared that no legitimate letter mail had been confiscated nor any treaty rights violated, but emphatically asserted the Allies' intention to continue searching parcel post packages for contraband "concealed" under postal folds.

### MANY SPORTSMEN DIED

The United States Lost Leaders in Many Branches

Johnnie Poe, the famous Princeton football player, met death, fighting with the Black Watch in France, September 25, 1915, and other prominent United States sportsmen whose death claimed during 1915 were: Lincoln Beachy, one of the most daring aviators who perished after a fall into San Francisco Bay, March 14; Capt. George Knox, of the American aero squadron, who was killed in Oklahoma, August 12; "Tim" Hurst, the baseball umpire; Charles Littlefield, jockey and horseman; Michael Murray, "father of soccer" football in America; Blind John Condon, a Chicago race track owner; Peter De Lacey, the "pool room king"; Floyd McFarland, the international cyclist; and Eugene Cook, a chess expert.

### How French Fatten Fowl

For fattening poultry in France the epinette is the favorable plan. It is merely rows of cages, with a separate compartment for each bird, generally 20 inches square, and opens at the top. No place is allowed for improvement. Some of the epinettes can accommodate fifty to one hundred birds. The bottom of the cage is in open work, and below a moveable board strewn with ashes or sawdust to receive the droppings. In front a trough for food and an earthen vessel for water. The cellar or fattening house is kept warm, and the light gradually diminished till darkness is secured on the fifth day. Only when being fed is daylight re-admitted, and then even many prefer to employ a lamp.

### Shirt Has 23-inch Collar

What is thought to be the biggest shirt ever made was turned out by a factory at Parsons, Kan., for George W. Nicklor, of Ames, Ia. The shirt is 83-inch waist, 23-inch collar, 36-inch chest, and 28-inch arms. It is made of cheviot and cost Nicklor \$4. Nicklor weighs 495 pounds and is only 5 feet 6 inches in height.

### HELPS UNITED STATES

Welland Canal Will Help New York State Route

Major R. W. Leonard, speaking before the Canadian C. E. Society, said: "Oswego is about 150 miles nearer (by Erie Canal) to Troy than is Buffalo, and, as the enlarged Welland Canal will be, by treaty, free to United States ships, their largest lake ships will deliver grain cargoes to 1,500-ton United States barges at Oswego, in the New York State Barge Canal for New York instead of into 200 or 300 ton barges at Buffalo as at present, and thus compete with large Canadian ships discharging into 2,000-ton barges at Prescott or Kingston for Montreal in the past the little Erie canal boats taking grain from Buffalo to New York have been very keen competitors against the St. Lawrence route. What will be the result of the new conditions when in operation? It would appear that the expenditure on the proposed Welland Canal enlargement when completed will be quite as much to the advantage of the United States as to Canada, and during construction probably much more than half the cost goes to the United States for coal and machinery."

### DEFIES GRAVITATION

French Inventor Makes Metal Float in Air—Car Without Wheels

Emile Bachelet, a Frenchman, living in obscurity and for a long time near to poverty, but for 20 years a patient, though unschooled delver into the hidden mysteries of electric forces, demonstrated to the wonderment of the scientific world an invention which actually defies the seemingly inflexible law of gravitation. Bachelet exhibited his wonderful device to a party of interested friends in his laboratory and the performance was weird. At the touch of a button they saw a 12-pound metal weight rising in mid-air, resting solidly on an invisible cushion of electric current. They placed their hands on this weight and pressed down. The weight came down and squirmed upward like a hollow ball on water.

Bachelet made these experiments merely to demonstrate the new scientific principle which he adapted to a transportation device so wonderful as



Weight held in mid-air by electric current.

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This car weighs 40 pounds and is constructed of aluminum and steel. It is suspended between three grooves, two below and one above. Brushes attached to the car run in the grooves, but there is practically no friction at these points of contact, and these brushes are merely to guide the car.

The car is levitated by alternating currents sent into the bottom grooves from magnet coils placed at the base of the grooves. The 40-pound weight then rests on the electric cushion, held only in place by the brushes.

At intervals along the track are solenoids, large coil magnets, which loop over the railway, like small tunnels. When Bachelet turned his direct current into these solenoids the suspended car was instantly attracted and leaped toward the next solenoid like a projectile shot from a high-power gun. Bachelet reversed his current and the car sped backward.

The inventor says that it would be possible, though not practical, to run a train of cars 1,000 miles an hour over a railroad so constructed. He says that a train could be run, practically 300 miles an hour.

### PROTECTS THE EYES

Motorist's Mask Easily Made From Old Felt Hat

If you are a motor-cyclist and want to protect your face and eyes from dust and flying bits of stone, there is no use buying an expensive mask for the purpose. Make it yourself out



of an old felt hat. The sketch shows the various stages of the transformation of the hat into a mask. Cover the eye holes with transparent celluloid and there you are.

Horse shoes attached by bolts around the hoof have been patented in England.

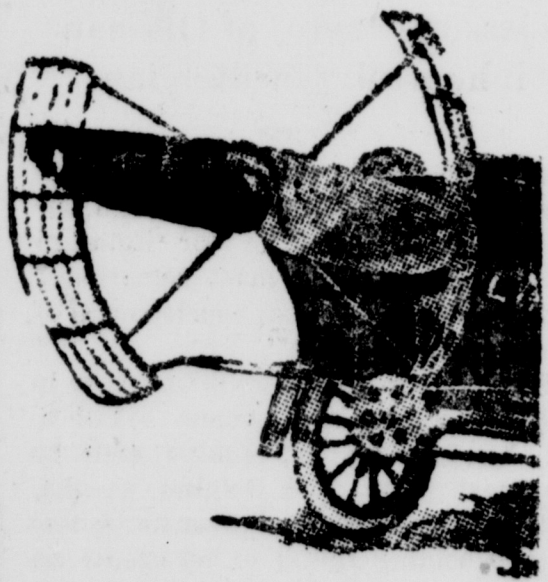
A patent has been granted to cover the manufacture of dog biscuits in the shape of bones.

### BLOWS ITSELF ALONG

Frenchman's Auto Uses Wind as Motive Power

Bertram De Lesseps, a brother of the famous airman, has his brother's liking for flying. Only he wanted to do his "flying" safely on terra firma, and so he rigged up an aerial auto to do it in.

Except for the general outline, the



Propeller on Auto

machine resembles the automobile very little. Instead of gasoline as a motive power, it uses the wind. A "rotary wing" aerial propeller, the shape and curve of which are based upon those of a bird's wing, drive the machine along at a fairly good speed. The propeller is placed a little to one side of the machine's rear so it can be turned towards the wind. The wings are protected at the sides by shield bars.

Not only has it to be blown along roads, up and down hill, but it has been lashed upon a scow which carried a load of 270 tons and it succeeded in propelling the scow at a speed of five miles an hour down stream and two miles an hour up stream. The scow was as manageable as if driven by the ordinary machine propeller, turning, backing and going forward again under perfect control.

### Notice of Sale

Notice is hereby given that pursuant to the terms of a warrant issued by the Secretary of the Municipality of Carleton County and according to the provisions of Section Eighty five (85) of Chapter twenty one of the Acts of the Province of New Brunswick, entitled "An Act to Consolidate and Amend Chapter 170 of the consolidated Statutes, 1903 respecting Rates and Taxes" the said warrant being dated the Fifteenth day of November, A. D. 1915, there will for default in the payment of County, Poor and Road taxes be sold at public auction in front of the Court House in the Town of Woodstock in the said County of Carleton, on Friday the Twenty fifth day of February, A. D. 1916, at the hour of two o'clock in the afternoon of the said day to the highest bidder so much of the Real Estate assessed in the name of the Wiggins Estate living and being in the Parish of Richmond in the County of Carleton aforesaid, as will be sufficient to pay the sum of One Dollar and six cents being the amount assessed for County, Poor and Road taxes against the said Wiggins Estate for the years 1912, 1913 and 1914 together with the further sum of Three Dollars and Fifteen cents costs and expenses on the date of issue of said warrant and the further sum of fifty cents for the said warrant, making in all the sum of Five Dollars and Thirty One cents, now unpaid, and also for costs and charges attending this Notice and Sale hereunder and recovery of said assessment. The said Real Estate assessed in the name of the Wiggins Estate to be sold as aforesaid being described as follows:—All that certain piece of and premises situate in the Parish of Richmond aforesaid, being same conveyed by John McBride to said George Campbell by deed registered in Book K number 2 Carleton County Records on pages 266 and 267 the 22nd of March A. D. 1872 and therein described as "Commencing on the Road or East line, on the Road leading from Watson Settlement in North Richmond to Haultain, and thence west five rods till it strikes a certain line between Francis Wilson and the said John McBride, thence along said line North eight rods, thence east five rods, thence south eight rods to the place of beginning containing one quarter of an acre."

Dated at Woodstock in the said County of Carleton this Twentieth—day of November A. D. 1915.

John R. Tompkins  
Sheriff of the County of Carleton.

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