

WINDMILL RUNS POWER PLANT

Operates Machinery by Day and Lights Buildings at Night—Cost Him \$250.

At a cost of \$250, a farmer living near Reading, Penna., conducted a electric lighting plant which provides illumination for the farmhouse, the dairy building and the livestock corals. It also supplies power with which to run a washing machine, a circular saw, a grindstone, a drill press, a cornsheller and a churn. The generator which produces the current for the plant is driven entirely by windmill power.

The farm on which this power plant has been installed consists of several hundred acres but there is only one windmill. The mill wheel is twelve feet across, having a strong shaft extending down the tower to the power pulleys.

In a little building at the foot of the windmill tower the dairyman has a dynamo which develops six amperes at thirty-five volts, having a capacity of 0.2 kilowatt when driven up to 1,450 revolutions per minute. The windmill is permitted to turn whenever there is sufficient breeze to turn the wheel, and the energy developed by the generator at all hours of the day and night is stored up in storage batteries which impart the current whenever it is needed.

The irregularity of the winds causes variations in the speed of the generator, but the possibility of accidents to the machinery as a result of such irregularities is done away with by a little automatic switch in the circuit between the generator and storage batteries. Whenever any unusual degree of speed is reached the switch works automatically, breaking the circuit until the excessive speed is reduced by the changing breeze.

This little storage power plant carries a load consisting of twenty-four electric light globes at night and drives abundant mechanical energy by day. It is a splendid example of the adoption of modern methods on the farm.

WHEN WOMEN WAR

Of the great army of brave women that had gone to battle in the early morning, there survived at evening only the merest remnant. The struggle had been fierce all along the line. "We shall sell our lives dearly, however!" they exclaimed, and resolutely took their final stand.

And when the opposing hosts, women likewise, heard that cry of despair, their onset in something lost its fervor.

"Whoever heard of a remnant not being closed out cheap?" they protested discontentedly, and at length drew off.

THE TEST

But of the three sorts, namely, those who are born great, those who acquire greatness, and those who have greatness thrust upon them, only the first are anywise certain to know what the different forces are for at the fashionable dinners inevitably given in their honor from time to time.

DIVIDED

Men, foreseeing nothing, invented in due season the spade.

"Now what shall we call it?" quoth the Art as calling it a spade, but Decency recoiled.

"Never!" shrieked Decency. "Anything but that!"

And man, the thenceforward, though not knowing why, was uncomfortably divided between two counsels.

Congressman Proposes Plan to Make Nation's Defenses Perfect



Congressman Frank T. O'Hair.

Washington.—(Special).—Led by Congressman O'Hair, of Illinois, a Democratic member of the Committee on Military Affairs, the movement to take stock of the defenses of the United States and to provide adequate protection for the republic on land and sea, is taking shape in the house of representatives.

Congressman O'Hair has introduced a resolution providing for an investigation of the entire question of national defense and for a report to congress of recommendations of the character of armed forces needed by the United States. The resolution has been referred to the military committee, which will give it consideration at the December session.

SOUTHERN GIRLS LAUNCH AMBITIOUS PLAN TO STIMULATE COTTON INDUSTRY



Top, Miss Genevieve Clark (left) and Miss Lucy Burleson; bottom, Miss Callie Hoke Smith.

Washington.—(Special).—With Miss Lucy Burleson, the daughter of the postmaster general, and Miss Callie Hoke Smith, the daughter of the senior senator from Georgia, as her chief lieutenants, Miss Genevieve Clark, daughter of Champ Clark, has launched a movement for a national bargain day in cotton goods.

Miss Clark's idea, which includes every town and city in the country, is based on suggestions of business men who believe that if the cotton trade is revived, business generally will be benefited. It is contended that if a demand for cotton goods is created, factories now without orders will be able to resume work.

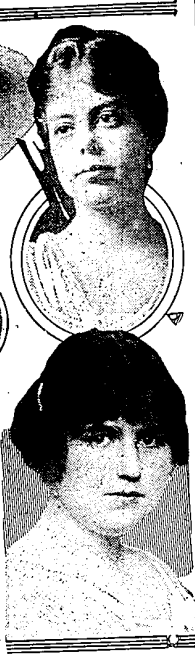
In order to popularize cotton goods, Miss Clark and her co-workers intend to organize a big bazaar in Washington to which no woman who does not wear a cotton gown will be admitted. They want a week set apart in October on any one day of which each city and town will have a general bargain sale of cotton goods.

All the dry goods stores of a city will be asked to cut prices on cottons on the day selected for the sale in that city.

This nationwide bargain sale of cotton goods is really a part of the "buy-a-bale-cotton" movement, that is approved by President Wilson, members of his cabinet and business men. In spite of abnormally low prices of raw cotton, the mills are working on part time only. They cannot sell cotton goods because the retail stores are loaded up, the war having curtailed consumption.

"In this European crisis," said Miss Clark, "women of all nationalities have given up as a great cost to themselves whatever they were doing and have gone into the Red Cross, hospital and charitable movements to help their various countries, to say nothing of the commercial in these warring countries while their husbands and their householders are at war."

"It seems to me that if Paulownia, the great Russian dancer, and Adeline Patte, the great singer, and various other women of international repute can return to their homes and take up these dangerous and arduous tasks in the cause of their country."



is as little as American women can do to wear for one season cotton clothes made in America in order to avert a great financial deadlock on which depends mainly the prosperity of our great South.

"It has been said that no person can live so that his life only affects himself, and so while this problem is essentially the problem of the South it affects the Northern section of our country by eliminating \$400,000,000 spent annually by Southern cotton growers in the North."

"It has been said by the business men of the country, who understand the financial situation, that there is no real lack of money in this country, that the trouble lies in the fact that people, anticipating a stringency, are holding on to what they have. Thus, should this idea of a great nationwide bargain sale in cotton goods, working on 10,000,000 women, each buying \$1 worth of cotton materials on a certain day would put in circulation \$100,000,000 of the hoarded gold, as most hoarded money is in gold, and to that extent alleviate the stringency."

The cotton factories of the country are at this time putting out only about one-half of the materials that they are equipped to turn out. The reason for this is that the merchants will not buy any more cotton materials until they have sold what they have on hand.

All the women of Europe, to meet the crisis which they have had to face, have gone in training for hospital and commercial service. If the cotton and commercial service. If the cotton can avert this crisis it is certainly their patriotic duty to do so."

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Trotol is the name given to a new explosive said to be the safest high explosive known. Its formula was worked out by Lieutenant Harold C. Woodward, an officer in the New York National Guard. Six ounces of trotol, it is said, will do the work of twelve ounces of dynamite.

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