

AFTER BEING DUG FROM SNOWDRIFT



TRIUMPH OVER STEAM

ELECTRIC LOCOMOTIVES PROVE GREAT SUCCESS.

Test Made at Bluefield, W. Va., Proves That George Westinghouse Had the Right Idea—Other Roads May Copy It.

What was a day dream of a great inventor has been realized by a test made at Bluefield, W. Va., on the most powerful electric locomotive ever built. Fourteen thousand horse power was used to start a single full tonnage train, while nearly eight thousand was used to propel it.

These giant locomotives were built, especially to haul the heavy freight trains over the steep mountain grade of this division.

Two locomotives are used on each train, one at each end, because otherwise the enormous strain on the car coupling from concentrating at one point the enormous amount of energy required to operate the train would be dangerous. Each locomotive weighs 270 tons, or over one million pounds per train. Their capacity exceeds that of any steam or electric locomotive ever built, or enough to move a 250-car train, or one two miles long on a level track.

The train moved by these locomotives weighed nearly four thousand tons and consisted of cars each carrying 100 tons of coal. It was started and handled with perfect ease on the two per cent grade of what is known as one of the most difficult pieces of construction in America.

A test was also made on the electric braking of the train down the mountain grade, resulting in the electric engines holding the train at a steady speed without the use of the train brakes. This is accomplished by the mechanical energy of the train on down grade being transformed into electric energy by the motors acting as generators. This energy is then returned to the system for use by other trains. This is the first time that this system of regaining energy has been put into use in this country, and is destined to be far-reaching in its effect.

The enormous energy utilized in operating these trains is fed to the locomotive from a single-phase alternating-current system over one wire no larger than a lead pencil, at 13,000 volts, a pressure 20 times greater than that used in the New York subway. The energy is generated by steam turbines in a special power house built by the railroad company to operate this division. It is located by the railroad tracks near the mines at Bluefield, from which coal can be economically secured.

The importance of this installation can hardly be overestimated in marking an advance in the electrification of steam railroads. It is interesting to note that this electrification is the practical realization of the ideas which the late George Westinghouse, inventor of the air brake, had nourished for many years, and his successful conclusion is due in no small measure to his activity along these lines.

It is confidently expected that the excellent results obtained on this installation will lead a number of other roads to adopt electricity as a means of increasing their capacity.

Locomotive Has Great Record.

The favorite locomotive on the western divisions of the Lehigh Valley is No. 2479. No. 2479 has a record of which any locomotive might be proud. It has traveled a distance equal to ten trips around the world without a breakdown of consequence, hauling passenger trains weighing 450 tons. During 28 months it worked every day. It also has a remarkable record for economy in fuel consumption. In short, it is a paragon.

Railroad "Scout."

The Canadian Pacific railroad has added to its staff a "scout," whose duty it will be to travel over the system and discover those employees who are especially worthy of advancement. Incidentally he will report those found wanting; but it is significant that his function primarily is not to make complaint, but to make doubly sure that the deserving are recognized.

Many Bridges on Short Route.

Sixty steel and wood bridges, ranging from 75 to 125 feet in length, will be required in a distance of 18 miles on the Central Canada railroad, north of Edmonton, for which the route plans have been filed with the provincial department of railways for Alberta.

UNDER SNOWDRIFT FOR WEEK

Three Locomotives Buried in Yard at Schenectady, New York, During Recent Blizzard.

Three freight locomotives were completely buried in a snowdrift during a blizzard, while standing in a yard at Schenectady, N. Y., and it was necessary to dig them out before they could be moved. The condition of the locomotives after they had been hauled from the drift is shown in the illustration. These were new locomotives that had never been in service, and had just been made ready for the "messengers" who were to accompany them to their destination on the purchasing railroad, when they were buried in the drift and snow-bound for a week.—Modern Mechanics.

STANDARD FIRST AID KIT

Emergency Remedies Have Been Most Conveniently Arranged in a Glass Jar.

M. W. Alexander, West Lynn, Mass., secretary of the national affiliated safety organizations, announces that the conference of the constituents of this organization—large associations of manufacturers—has agreed on a standard first aid jar, made of glass, which contains a considerable larger number and variety of medicines and appliances than are generally found in railroad first aid kits, says the Railway Age Gazette.

The jar is nine and one-half inches in diameter, six inches high and complete, with contents, weighs about twelve pounds. Besides the usual appliances and tools it contains eight two ounce bottles of approved remedies. The bottles are ingeniously arranged in the jar so that their labels are visible through the sides of the jar, and any one bottle can be taken out without disturbing the others. These bottles contain aromatic spirits of ammonia, white wine vinegar, castor oil, burn ointment and Jamaica ginger. The jar has been made strong by special annealing treatment, and its walls are plain, so that the jar may easily be kept clean.

The conference board has issued a circular of brief instructions to laymen for first aid treatment of common injuries and disorders, which includes illustrated directions for resuscitating persons who have suffered electric shocks; the inside of the cover of the jar is also filled with printed instructions.

It is the intention to furnish the jars and their contents at cost price.

Best Paying Railroad.

The railroad that pays the biggest dividends on the capital invested is, according to the Technical World Magazine, the Grand Island railroad. It is in northern Alberta, Canada, 200 miles from any trunk line or feed. It is only a quarter of a mile long and built of scrap iron on wooden rails. Its rolling stock consists of two battered freight cars which are pushed along the road by the men who ship the freight, no locomotives being used.

The freight that is handled on this road consists principally of furs, which are towed up the Athabasca river on scows hauled by men, are laden on the cars, pushed down the railroad and shipped again on other scows, thereby circumventing the dangerous Grand rapids. Returning, the scows carry all sorts of freight for the Hudson Bay company's factors, and are floated down the river. The Hudson Bay company charges \$2.50 a ton for all freight on this little railroad, and the shipper must handle his own goods and push the cars himself.

Postal Railroad in London.

A nine-foot tunnel is about to be constructed in London for the conveyance of mail. It will contain two tracks with island platforms at the eight stations from Paddington to Whitechapel, inclusive. The trains will be run without operators from distant control stations at an average speed of 25 miles per hour. At the island platforms there will be electric elevators to transfer the mails to the sorting offices.—Scientific American.

To Get His Money Back.

A dismissed employee of a railroad company is entitled to recover his contributions to a relief fund while he was in the company's employ. A decision to that effect was made in the District of Columbia court of appeals when it reversed the finding of a lower court and directed the Pennsylvania railroad company, as trustee of the fund, to account to George W. Vermillion for his payments into the fund.

Horticultural Points

PICKED UP IN THE ORCHARD

If Trees Are Not Protected Against Mice Much Damage Will Result—Sort and Pack Apples.

As we look out over the orchard these days, everything seems to be quiet and peaceful on the surface; but if there is deep snow on the ground thousands of mice are probably busy making their tunnels from their nests to the young trees to breakfast off their tender bark. If you have not protected the trees by putting paper or wire screens about them your reflections will not be altogether pleasant.

If you have apples to sell and they have not yet been properly sorted and packed, now is a good time to do this work. Sort according to size and color and pack in small boxes with paper between the layers, particularly if you have private customers, as most people like them better that way than when packed loosely in barrels.



Good Way to Use Dead Trees—Fine Work for the Winter.

Be particular to select good apples of the same size for the top layer, but be just as particular to see that those in the middle and the bottom of the box are equally good.

Second quality apples should be packed in the same way, in boxes by themselves, and the culls can either be made into cider or worked up for family use or sold in the market for just what they are.

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Best Time for Pruning.

There is a lot of truth in the old saying that one should prune when the knife is sharp. Spring is the best time for pruning, as at that time the wounds heal up most quickly. If the trees are making excessive growth a pruning early in July is good, as there is not likely to be any new growth starting as the results of cutting out the old. There is also little danger of recurring growth if just the water-sprouts are cut out now.

Best Keeping Qualities.

For best keeping qualities, apples should be picked as soon as they are well colored and before they are over-ripe. However, if picked too green they will shrivel, while if allowed to become too ripe they will become dry and mealy.

Vaccination a Fake.

If any tree doctor offers to vaccinate your trees to repel insects and disease set the dog on him and drive him off the place in a hurry. He is a faker and his treatment is no good. It may hurt the tree; it certainly will not be of benefit.

Pear Trees Run High.

Young pear trees are inclined to run up high. They should be headed in severely every year while young. Bearing pear trees need but little pruning.

"CASCARETS" ACT ON LIVER, BOWELS

No sick headache, biliousness, bad taste or constipation by morning.

Get a 10-cent box. Are you keeping your bowels, liver, and stomach clean, pure and fresh with Cascarets, or merely forcing a passageway every few days with Salts, Cathartic Pills, Castor Oil or Purgative Waters?

Stop having a bowel wash-day. Let Cascarets thoroughly cleanse and regulate the stomach, remove the sour and fermenting food and foul gases, take the excess bile from the liver and carry out of the system all the constipated waste matter and poisons in the bowels.

A Cascaret to-night will make you feel great by morning. They work while you sleep—never gripe, sicken or cause any inconvenience, and cost only 10 cents a box from your store. Millions of men and women take a Cascaret now and then and never have Headache, Biliousness, Coated Tongue, Indigestion, Sour Stomach or Constipation. Adv.

—The Explanation. Tomdix—So Weeks is married, eh? He is so timid that I wonder he ever mustered up sufficient courage to propose.

Hojax—Oh, he didn't have to. A young widow married him.

Have Healthy, Strong, Beautiful Eyes. Oculin and Physiannus used Murine Eye Remedy many years before it was offered as a Domestic Eye Medicine. Murine is Still Compounded by Our Physicians and guaranteed by them as a Reliable Relief for Eyes that Need Care. Try it in your eyes and in Baby's eyes—No Smarting—Just Eye Comfort. Buy Murine of your Druggist—accept no Substitute, and if interested write for Book of the Eye Free. MURINE EYE REMEDY CO., CHICAGO

That's So. "Golf is a good game, but it has its limitations." "How so?"

"You never see a golfing story where the hero saves the game in the last three minutes of play."—Kansas City Journal.

His Evening Stunt. Rankin—I saw a wonderful thing today. Phyle—What was it?

Rankin—A Japanese vaudeville performer wrote a sentence with each hand and talked at the same time.

Phyle—That's nothing, every evening I have to read the paper while I am carrying on a four-cornered conversation with my wife and three children.

Explanation to Her Guests. A little girl gave a children's party the other day to certain of her young friends. She was very anxious that everything should be done properly, and just before the arrival of the guests was discussing matters with her mother.

"Mamma," she asked, "shall we say grace?"

"No," said mamma; "it will be a very informal dinner, and I think you need not do that."

That meant one ceremony the less to be gone through, and was a relief. But the little lady was anxious to have all her guests understand it. So, as they gathered about the table, she explained:

"Mamma says that this is such an infernal dinner that we need not have grace today!"

MAY BE COFFEE That Causes all the Trouble

When the house is afire, it's about the same as when disease begins to show, it's no time to talk but time to act—delay is dangerous—remove the cause of the trouble at once.

"For a number of years," wrote a Kansas lady, "I felt sure that coffee was hurting me, and yet I was so fond of it, I could not give it up. At last I got so bad that I made up my mind I must either quit the use of coffee or die."

"Everything I ate distressed me, and I suffered severely most of the time with palpitation of the heart. I frequently woke up in the night with the feeling that I was almost gone—my heart seemed so smothered and weak in its action. My breath grew short and the least exertion set me panting. I slept but little and suffered from rheumatism."

"Two years ago I stopped using the coffee and began to use Postum and from the very first I began to improve. It worked a miracle! Now I can eat anything and digest it without trouble. I sleep like a baby, and my heart beats strong and regularly. My breathing has become steady and normal, and my rheumatism has left me."

"I feel like another person, and it is all due to quitting coffee and using Postum, for I haven't used any medicine and none would have done any good as long as I kept drugging with coffee." Name given by Postum Co., Battle Creek, Mich. Read "The Road to Wellville," in pgs.

Postum comes in two forms: Regular Postum—must be well boiled. 15c and 25c packages. Instant Postum—is a soluble powder. A teaspoonful dissolves quickly in a cup of hot water and, with cream and sugar, makes a delicious beverage instantly. 30c and 50c tins.

Both kinds are equally delicious, and cost per cup about the same. "There's a Reason" for Postum.—said by Grocers

Adamantine. "I never saw any one so obstinate and set as John is." "You surprise me!" "Yes, indeed. Why, only this morning we had a dispute, but I stood firm and told him he might move the pyramids, but he couldn't move me when my mind was made up." "And he finally admitted that he was wrong?" "Well, about the same thing. He said, 'Have your own way, Marle.'" "Of course. But what was the argument about?" "Oh, I haven't the slightest recollection; but it was the principle, you know."

IF BACK HURTS CLEAN KIDNEYS WITH SALTS

Drink Lots of Water and Stop Eating Meat for a While if the Bladder Bothers You.

Meat forms uric acid which excites and overworks the kidneys in their efforts to filter it from the system. Regular eaters of meat must flush the kidneys occasionally. You must relieve them like you relieve your bowels; removing all the acids, waste and poison, else you feel a dull misery in the kidney region, sharp pains in the back or sick headache, dizziness, your stomach sours, tongue is coated and when the weather is bad you have rheumatic twinges. The urine is cloudy, full of sediment; the channels often get irritated, obliging you to get up two or three times during the night.

To neutralize these irritating acids and flush off the body's urinous waste get about four ounces of Jad Salts from any pharmacy; take a tablespoonful in a glass of water before breakfast for a few days and your kidneys will then act fine and bladder disorders disappear. This famous salt is made from the acid of grapes and lemon juice, combined with lithia, and has been used for generations to clean and stimulate sluggish kidneys and stop bladder irritation. Jad Salts is inexpensive; harmless and makes a delightful effervescent lithia-water drink which millions of men and women take now and then, thus avoiding serious kidney and bladder diseases.—Adv.

What Interested Her. "The overture is about to begin. We might as well go in." "Did you get your wife a book of the opera?"

"No, she doesn't care for the opera. I would pay well, however, for a catalogue or price list of the jewels being worn in the boxes."—Kansas City Journal.

IF HAIR IS TURNING GRAY, USE SAGE TEA

Don't Look Old! Try Grandmother's Recipe to Darken and Beautify Gray, Faded, Lifeless Hair.

Grandmother kept her hair beautifully darkened, glossy and abundant with a brew of Sage Tea and Sulphur. Whenever her hair fell out or took on that dull, faded or streaked appearance, this simple mixture was applied with wonderful effect. By asking at any drug store for "Wyeth's Sage and Sulphur Hair Remedy," you will get a large bottle of this old-time recipe, ready to use, for about 50 cents. This simple mixture can be depended upon to restore natural color and beauty to the hair and is splendid for dandruff, dry, itchy scalp and falling hair.

A well-known druggist says everybody uses Wyeth's Sage and Sulphur, because it darkens so naturally and evenly that nobody can tell it has been applied—it's so easy to use, too. You simply dampen a comb or soft brush and draw it through your hair, taking one strand at a time. By morning the gray hair disappears; after another application or two, it is restored to its natural color and looks glossy, soft and abundant. Adv.

Not Even Skin Deep. Hokus—Yes, she's pretty; but she doesn't wear well. Pokus—Rubs off, eh?—Judge.



For Coughs, Colds and Difteria, and at the first symptoms of any such ailment, give small doses of this wonderful remedy. Now the most used in America. SPOHN'S DIFTERIA COMPOUND 50 cents and \$1 a bottle; 50 and 100 the dozen of any druggist, harness dealer, or delivered by SPOHN MEDICAL CO., Chemists and Bacteriologists, Gothen, Ind., U. S. A.

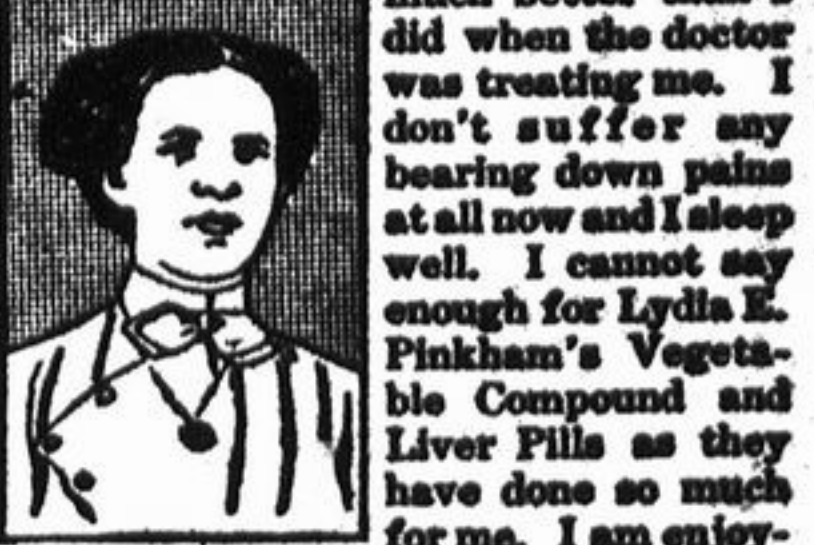
Canadian Wheat to Feed the World

The war's fearful devastation of European crops has caused an unusual demand for grain from the American Continent. The people of the world must be fed and there is an unusual demand for Canadian wheat. Canada's invitation to every industrious American is therefore especially attractive. She wants farmers to make money and happy, prosperous homes for themselves while helping her to raise immense wheat crops.

WHAT \$10 DID FOR THIS WOMAN

The Price She Paid for Lydia E. Pinkham's Vegetable Compound Which Brought Good Health.

Danville, Va.—"I have only spent ten dollars on your medicine and I feel so much better than I did when the doctor was treating me. I don't suffer any bearing down pains at all now and I sleep well. I cannot say enough for Lydia E. Pinkham's Vegetable Compound and Liver Pills as they have done so much for me. I am enjoying good health now and owe it all to your remedies. I take pleasure in telling my friends and neighbors about them."—Mrs. MATTIE HALEY, 501 Colquhoun Street, Danville, Va.



No woman suffering from any form of female troubles should lose hope until she has given Lydia E. Pinkham's Vegetable Compound a fair trial. This famous remedy, the medicinal ingredients of which are derived from native roots and herbs, has for forty years proved to be a most valuable tonic and invigorator of the female organism. Women everywhere bear willing testimony to the wonderful virtue of Lydia E. Pinkham's Vegetable Compound.

If you have the slightest doubt that Lydia E. Pinkham's Vegetable Compound will help you, write to Lydia E. Pinkham Medicine Co. (confidential) Lynn, Mass., for advice. Your letter will be opened, read and answered by a woman and held in strict confidence.

Liked the Church, But—Sweet Girl—Do you enjoy taking me to church? Lover—Not so much as riding with you in a street car. "Goodness! Why?" "The sexton never yells, 'Sit closer, please.'"—New York Weekly.

Important to Mothers Examine carefully every bottle of CASTORIA, a safe and sure remedy for infants and children, and see that it bears the Signature of *Wm. D. Fletch* in Use For 30 Years. Children Cry for Fletcher's Castoria

In the Wrong Place. "They made me pay ten cents for bread and butter at that hotel and then I had to tip the waiter 50 cents." "What did you have to eat?" "Bread and butter. I only had 60 cents."

A simple remedy against coughs and all throat irritations are Dean's Mentholated Cough Drops—5c at all good Druggists.

One way to become a satisfactory guest is to postpone the visit.

Blessed is he who keeps his troubles to himself.

The Army of Constipation

Is Growing Smaller Every Day. CARTER'S LITTLE LIVER PILLS are responsible—they not only give relief—they permanently cure Constipation. Millions use them for Biliousness, Indigestion, Sick Headache, Sallow Skin. SMALL PILL, SMALL DOSE, SMALL PRICE. Genuine must bear Signature

W. N. U., CHICAGO, NO. 10-1915.

Watch Your Colts

For Coughs, Colds and Difteria, and at the first symptoms of any such ailment, give small doses of this wonderful remedy. Now the most used in America. SPOHN'S DIFTERIA COMPOUND 50 cents and \$1 a bottle; 50 and 100 the dozen of any druggist, harness dealer, or delivered by SPOHN MEDICAL CO., Chemists and Bacteriologists, Gothen, Ind., U. S. A.



You can get a Homestead of 160 acres FREE and other lands can be bought at remarkably low prices. Think of the money you can make with wheat at its present high prices, when for some time it is liable to continue. During many years Canadian wheatfields have averaged 30 bushels to the acre—many yields as high as 45 bushels to the acre. Wonderful crops also of Oats, Barley and Flax. Mixed farming is fully as profitable an industry as grain raising. The excellent grasses, full of nutrition, are the only food required either for beef or dairy purposes. Good schools, markets convenient, climate excellent. Military service is not compulsory in Canada, but there is an extra demand for farm labor to replace the many young men who have volunteered for the war. The Government this year is urging farmers to put extra acreage into grain. Write for literature and particulars as to related matters under the Department of Immigration, Ottawa, Canada, or C. A. SPOHN, Room 402, 125 West Adams Street, Chicago, Ill. N. Y. REGISTER, 10th Avenue, New York City. Canadian Government Agents