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THIS IS a simple, strongly constructed, and absolutely guaranteed device that has revolutionized the use of this popular car

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erset Building, Winnipeg. belosed find \$7.00 for which you may and see one our SAFETY STEERING DEVICES for Pord together with illustration and full instructions for

### NATURE'S POWERS.

### She Yields Them in Many Ways for Use of Man.

In several ingenious ways the forces of nature are now exploited in order to provide power for machinery necessary for various human activities. Such apparatus is especially favored by engineers, for not only can enormous power be obtained, but the running expenses are extremely low. One the most ingenious of these inventions is that which obtains power from the rays of the sun. The apparatus is at work in Egypt, where it pumps up water onto high levels thousands of gallons.

This novel device consists of a number of reflecting mirrors which concentrate the rays of the sun onto a glass covered trough containing water. In a short space of time this water becomes sufficiently heated by the reflection from the mirrors to give off which passes into a pipe to an engine of the usual steam variety. When some thirty or forty of these heating boxes are boiling water by means of the sun's heat sufficient steam is obtained to keep a powerful pumping engine at work with a minimum of expense

idea of the enormous power gallons of water can be by means of dams, gigantic rs and great stretches of pip
After an absence of two years I reservoirs and great stretches of ing and converted into power for var-

ious purposes.

Many great waterfalls are now har-Many great waterfalls are now harnessed in such a fashion, two of the most important being the falls of the hine and those of Nigrae. The broad daylight, to cross the stream in these great products of nature is somethese great products of nature is nature is somethese great products of nature is nature is nature is nature these great products of nature is somewhat complicateo, but roughly speaking huge pipes divert tons of water from the rapids just above the fall. This trapped water is then allowed to fall some hundreds of feet and the force of its fall produces enormous power. The falls of Niagara are made to produce little short of 1,000,000 bered 250 souls! little short of 1,000,000 bered 250 souls!

horse-power. Still more ingenious is another method of producing power from sea water by the rise and fall of the tides. Portions of the coast where high tides are the rule are chosen and a number of clefts in the cliffs are constructed or those of nature especially adapted. The water runs far into the openings at high tide and by means of pipes is trapped into a huge reservoir. When the tide falls hundreds of gallons of water are thus left behind. Being on a high level it is then a comparatively means of pipes to a level many feet ning.

below and utilize the power thus ob tained by the usual water jets acting on specially constructed wheels.

Wind is still trapped and converted into power by windmills, but these machines are very different from the old type of mill with its four big sails. The modern windmill is a scientifically constructed apparatus, the driving force consisting of a wheel containing a number of steel blades placed at such an angle that they respond to every puff of wind. So delicate is the construction of these instruments that even a moderate breeze will whirl the large wheel around at many hundred revolutions a minute. This motion acts as a shaft which provides power for electric dynamos below. These machines are used mostly in coast towns or those situated on high levels, where wind blows more or less constantly.

One of the most ingenious projects for harnessing the forces of nature is that conceived by Sir William Ramthat conceived by Sir William Ram-say, and despite its daring nature it has been well received in high scien-tific circles. His plan is to take the heat of the earth's interior by means of huge bore holes. These shafts would be sunk deep into the earth, so that they penetrated into large coal seams. By means of electricity this coal would be fired until it burned like some powerful internal furnace. By like some powerful internal furnace. By means of pipes the gas given off by this burning coal would be conveyed to the surface and in various ways utilized for power purposes. The ad-vantage of this scheme is that power could be derived from coal as it lay in its natural element, and the cost of mining it and bringing it up would be avoided.

### Science Notes.

The jinricksha is the man-propelled vehicle of the far east, is being superseded by a vehicle known as the cyclericksha.

Half the important European land battles of the last three centuries have taken place in Belgium.

It has been found that wireless telegraph waves are propagated along the surface of the earth with a velocity slightly inferior to that of light. The distance from which vultures

and eagles can spy their prey is almost A cargo of salmon recently shipped out of Vancouver consisted of 5,000,000 cans, valued at \$500,000 wholesale. Laid end to end the cans would reach

a distance of 452 miles. Salubite, a new explosive, is fifty times more powerful than dynamite, and is much safer, for it will explode only by means of the percussion cap.

# Have a Good Complexion! The Flower of Good Health

The true secret of complexion lies in the blood. Keep it rich, pure, nutritious, and, above all, keep the system regular. No aid to complexion compares with Dr. Hamilton's Pills. They tone and enrich the blood, clear the system of waste products, mote good digestion. and, in in short, establish sound health, which, after all, is the keynote to all happiness and well-being. Don't delay; the charm of a lovely complexion and all the blessings of health are yours, once you employ this old-time family remedy. All dealers sell Pills in 25c boxes. Hamilton's

# ALLIGATORS OF PANAMA.

### One Man Eater That Had Terrorized Two Neighboring Villages.

With other white companions I have often plunged into the waters of the Tuyra, a fairly large river which flows into the gulf of Panama after having traversed immense stretches of which the sun machine conveys to having traversed immense stretches of the engine can be gauged by the fact impenetrable forests. Regularly a score or so of alligators assisted at our gambols at a distance of thirty or lifted forty feet in one minute. In gambols at a distance of thirty or many ingenious ways water is now forty yards, and we came to look upon

turned and in two neighboring villages found the inhabitants terrified.

orse-power.

Still more ingenious is another method of producing power from sea works.

After a series of fruitless attempts we ended in capturing the brute with

level it is then a comparatively matter to drop this water by covers that his hand has lost its cun-

\$100.00

# TENDER SENSITIVE SKINS Quickly Soothed by Cuticura. Nothing Better. Trial Free.

Especially when preceded by a hot bath with Cuticura Soap. Many comforting things these fragrant supercreamy emollients may do for the skin.

Sample each free by mail with the skin. Sample each free by mail, with 32-p. Skin Book. Address post-card, Cuticura, Dept. L, Boston, U.S.A. Sold everywhere.

### BACK YARD GARDENS.

Simple Instructions for Those Interested in Doing Their Part to Increase Production.

terested in Doing Their Part
to Increase Production.

The crop should be arranged to have
the slope, as pertains to height of crop,
towards the south. That is the tail
vegetables, as corn, should be at the
north, while the low-growing plants
should be at the south, to allow as much
sunlight as mossible to enter.

Seeds—It always pays to get the best
seed. Buy from a reliable firm.

Soil Preparation—Put the soil into the
best physical condition possible, that is,
have it finely pulverized before planting
the seeds. Free the soil from rocks,
sticks, large clods, strawy matter, etc.
If the soil is heavy clay it will be improve
dby adding a little sand and some well
soil be ploughed or spadea in the tail. If,
however, it has not been previously
worked, up apply rotted manure if available and turn the soil well over in the
spring, and; if in sod, turn the sod well
under and pack down. Then prepare a
fine seed bed on the surface.

Sowing—The hardier seeds such as peas,
spinach, radishes, lettuce, carrots, and onnous may be sown as early as the ground
as ready. The tender seeds such as
to plantic cucumbers and beans should not
be planted until the ground is warm and
danger from frost is past. When
plantial Lettuce, spinach, radishes,
carrots and inons may be covered onehalf inch in dions may be covered onehalf inch in dio

Macoun.

Macoun.

No. 11—Cabbage and Cauliflower Culture, by W. T. Macoun.

Nos. 7 and 8, Profitable Field Root

Varieties, by F. G. Brown.

Also the bulletin entitled The Vegetable

Garden, dealing with the cultivation of

tomatoes, onions, cabbage, cauliflower,

celery, melons, watermelons, cucumbers,

beets, squash, pumpkins, carrots, par
snips, turnips, salsify (or oyster plant),

radishes, peas, beans, corn, eggplant, pep
gers, spinach, lettuce, parsley, sweet

herbs, asparagus and rhubarb—F. C. N.

In Conservation.

LIQUOR AND

# MORPHINE HABITS

Are diseases, not vices, and there-fore curable. Patients are under my personal care and receive their treatment in ordinary hospitals as ordinary medical cases.

D. H. ARNOTT, M. D. 226 Queen's Ave., London, Ont.

GET OUT TO THE COUNTRY.

(Galt' Reporter) (Galt Reporter)

He who fails to take his share of the joys of the country at this time of the year misses one of the best gifts that nature has to bestow. He also misses the chance of gaining that vigor of mind and body which comes only from breathing the ozone of the country air.

Minard's Liniment Lumberman's

Life Lengthens, Not Old Age.

Life Lengthens, Not Old Age.

The mean expectation of life at birth in the case of males, as shown by the last English life table (1891-1900), 18 44-13 years, as contrasted with 39.91 years' value given in the life table based on the experience of 1838 to 1854.

But we have no proof that this increase is due to any circumstances arrecting the conditions of life of adults, because the mean after lifetime of persons over 45 in both sexes, and over 35 in the case of males, has either remained sensibly constant or even diminished. For instance in the case of males the expectation of life at the age of 35, as shown in the last life-table is 29.24 years; the 1838-1858 table gives 29.40. At the age of 45 the corresponding figures are 22.20 and 22.76; at the age of 55, 15.79 and 16.45, and at the age of 55, 10.31 and 10.82.

A partial explanation is offered by the probability that many wenklings who were formerly destroyed by zymotic discases of tuberculosis in early life now survive to adult ace, and that the life table values reflect the consequence of this slackening of selection. — London Times.

# MOTHERS' CONFERENCE ON.

WITHERS' CONFERENCE ON.

(St. Thomas Journal)

When the fighting has been finished and the world settles down once more to the ordinary routine of life, would it not be an excellent idea to call a world convention of mothers to discuss militarism. If all the mothers could get together and agree on a plan to keep all thoughts of militarism out of the minds of their children and the children to come, there would be, a few generations hence, no desire for war. This seems to be the most logical path toward the far-off goal of universal peace.

# QUEER ANIMAL TRAPS.

Not Intended as Such, but They Prove Deadly Lures. That almost unerring instinct which

carries animals through grave dangers has led in many instances in the Mid-way and Sunset oil fields of California to their undoing. Chief among such victims are rabbits and water fowl.

A jackrabbit and a cottontail find a

nice round, smooth hole. There are many such in the oil fields, where oil piping is a necessity for the transporof oil to the refineries. The rabbits decide to set up housekeeping there. The cottontail desires a permanent home, and the jackrabbit wants a refuge safe from malevolent

Soon they discover their habitat is being moved. No doubt they are frightened, but they instinctively stay within their retreat. One end of the hole is closed. Even then they do not leave. Soon the other end of the hole is darkened. Then it is darkness eternal for the furry pair.
Some time later it is discovered that

a newly laid oil pipe line is choked After great labor the line is disjointed and the remains of many rabbits removed. Thousands of rabbits have been thus exterminated in the oil fields.

The death rate among water fowl is even greater. Again, as with the rabbits, instinct leads them to certain destruction. Every little lake of oil in the vicinity of a gusher is a trap for the unthinking birds. At twilight and dawn these tar colored lakes app bodies of water to the deluded fowl.-Scientific American



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You accomplish all these results by using our heavily zinc coated

# "Eastlake" Metallic Shingles

They give longer service than any other roofing. Cost less to lay, Are rust-proof and do not require painting. Those laid 28 years ago are still giving good service. Send for free book that shows how "Eastlake" shingles make your buildings lightning fire, and buildings lightning fire, and weather-proof and why they cost less per year than any other roofing.

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THE METALLIC ROOFING CO., Limited 797 Notre Dame Ave., WINNIPEG King and Dufferin Sts., TORONTO



### THE FORTUNATE FARMER. (Brantford Expositor)

entire wheat crop of Western Can ada will be sufficient to feed a population of appreximately 34 millions.

To estimate, at this season of the year, To estimate, at this season of the year, the money value of this crop is dangerously akin to counting chickens still in the incubator, but all signs point to prosperity on the farm enequalled in the history of the West. Not only will the 
farmer have more wheat to sell, but he 
is gradually bringing every branch of 
agriculture on to a sounder bais, particularly by diversifying his interest and 
giving more and more attention to stockraising and dairying. His prosperity 
will be reflected in every line of legitimate trade.

Minard's Liniment used by Physicians

# An Indian Red Riding Hood.

An Indian Red Riding Hood.

A Labrador missionary, says Mortimer Batten, in the saugust wide World magazine, told me a currous story which occurred on the Labrador coast some years ago. One night the little daughter of a certain brave was missing, and, on discovering the child's tracks in the snow, a party of squaws set out to look for her. What was their alarm when, a little way from the camp, they found that the footprints of a great grey wolf accompanied those of the child. The brute did not appear to have harmed her, but had apparently frisked along ahead, enticing the child farther and farther from camp. In all probability the child mistook it for a dog and followed readily, though the superstituous Indians, of course, believed that the brute had exercised some devilish influence over her. Darkness was crenjing on, and, though much afraid, the squaws continued to follow the tracks of the wolf and the child. Night found them far from home, when what of horror that ensued, to return next morning to bear tidings of the calamity to camp.

NEW MISSIONS NEEDED.

NEW MISSIONS NEEDED. (Pittsburg Gazette-Times) A New York religious society reports sending tons of tracts to the heathen in Africa in the last three months. Why neglect the heathen of Europe?

# Roquefort Sheep.

The milk of a single Roquefort sheep will in a year provide from thirty to forty pounds of cheese. In that district of France there are about 8,-000 sheep devoted to the sheep in-

Do all the good you can to all the people you can ,as long as you can, and in every place you can.

### AUTO ROAD HOGS. (London Advertiser)

This phrase "making them step lively" s the slogan of too many men who drive notor cars. In fact it becomes more

motor cars. In fact it becomes more and more apparent that car owners regard those who travel afoot, whether through inclination or otherwise, as a great herd to be, "shoved, as a free there to be, "shoved, as a few way like so many chickens by the servant of a "warning" signal, is too often a "command" signal, a sort of make-way-for-the-rajah injunction to those who still proceed on shoe leather.

While the majority of motor owners are considerate and unwilling to force a path by fear of death, there are many persons who should not be trusted behind a wheel. It maneates them to affect a superiority that is not at all warranted. They try too much to "make them step lively." The man afoot has more than an equal ownership of the streets with the man in the car.

### MOTHERS OF LITTLE ONES.

No mother of young children should be without a box of Baby's Own Tab-lets. The Tablets are mothers best friend and are as good as a doctor in Wurger, Ingersoll, Ont., writes: "I have used Baby's Own Tablets for the past eight years and would not be without them. I can highly recommend them to all mothers of young children." The Tablets are sold by medicine dealers or by mail at 25 cents a box from The Dr. Williams' Media box from The Dr. Will cine Co., Brockville, Ont.

### New Use for Flower Pots.

Pierre Lord, an American of French ancestry, has just found that an ordinary red clay flower-pot can be made use of to keep water, butter and other things at retrigerator temperatures in tropical climates or the hottest of August days.

While an ordinary flowerpot will do, any sore of clav jars, porous vessels or common unglazed earthenware pots

and receptacles may answer.

All you need do is to moisten a rag or bag cloth with strong salt water and keep it over the top of the flowerpot. The ends should dip down into a soup dish or basin on which the flowerpot stands. This training dish must be kept full of water all the time. A dark, cool pantry, just where you would keep an ice cooler or a refrigerator, is a
good place to keep the clay jar or pot.
Another way described by C. F.
Saunders is to wrap a layer of burlap
around a porous jar. The water or
butter or what not is put in the jar
and it is evropsed to be wretter or what not is put in the jar and it is exposed to a current of air say, on a dark window sill with windows open and shutter closed.

The water inside the porous pot per-

pires its way in a microscopic mois-ture through to the outer surface. The ragbag or burlap maintains such a slow rate of evaporation that the pot is kept cold and this cools the con-

tents.

This use of flowerpots to make ice water can be made valuable not only to every home and boarding house in the land but in times of ice famine on trains, in deserts, on the baseball field and in the pantries and kitchens of ho-

tels and other places. A simple little laboratory experiment really confirms the principle be hind these practical discoveries. If you take an ordinary bath thermo-meter and cover it with a moist cloth all you need do to show how the mercury will fall is to fan it, blow gently upon it or stand it at a window crack The mercury will begin to fall just as it does in January. As you blow the evaporation of the moisture in the cloth goes on and this cools the thermometer.

# Pharoah's Serpents.

A cone om Mercuric sulpho-cyanate when ignited, burns with the development of a tremendous amount of ash. The cone seems to swell and writhe away like a scrpent hence the name. Any boy can make the cones at little expense. To a solution of corrosive sublimate, sdd a few drops of ferric chloride. Dissolve potassium sulphocyanate in water, and slowly add this to the other solution, until after stirring, a red color remains. Filter through, a red color remains. mains. Filter through a sheet of muslin and form the white curds into little bails or cones. Dry, and you need only touch a match to produce Pharaoh's serpents. Do not breathe the vapors.

Keep Minard's Liniment in the house

A Born Orator. "Senator Wombat is considerabe of an orator, I take it?" "Oh, yes, he waxes eloquent in borrowing a match."—Pitsburg Post.

> PROSPERITY AND BOOZE. (Collier's)

(Collier's)

If the liquor question is to be argued as a matter of mere dollars and cents, don't accept "statistics" that seem to show that prosperity follows the boozwageon. Prosperity can'e be tapped at any bar at all, and never could. Statistics that prove the contrary are, to put it kindly pifflicated. If you live in a prohibition township, and don't know what "pifflicated" means, well, just substitute lightly present the property of the

# ISSUE NO. 22, 1915

HELP WANTED-FEMALE

WANTED—GIRLS OF GOOD EDUCA-tion and character to train for nur-ses. Reply to Wellandra Hospital, St. Catharines, Ont.

J ADIES WANTED TO DO PLAIN and light sewing at home, whole or spare time; good pay; work sent any distance; charges paid. Send stamp tor particulars. National Manuracturing Co., Montreal.

### A Smile or Two.

"Last summer I was engaged to a gers met here named Louise. See, I cut "Last summer I was engaged to a gers
I met here named Louise. See, I cut
an 'L' in this tree." "How does that
interest me?" "It's like this, Edythe:
I could easily change that 'L' into an
'E'."—Seattle Post-Intelligencer.

"Going to spend the summer at a watering place?" inquired the first New York broker. "You might call it that," answered the other one. "I am going to stay right here on the stock exchange."—Louisville Courier-Journal.

"Are you putting away something for a rate you have you away something for a rate you have you will game on rainy days."—Youkers Statesman.

"Balk. She must be rather feeble now," "We buried her list year," "Buried her? "Yes; that's why we buried her." "Summer has its inconvenienses." "I don't get you." "I was just thinking of the vesless man who tried to carry a lead pencil a fountain pen, his watch and his cigars in the top pocket of his cout." "Detroit Free Press.

"I don't care for these vicious plays." "But they sometimes point a moral." "Well, when I want a moral. I can get a seat in the police court for nothing. So what's the use of coughing up 227 I'll save my money for a musical comedy."—Pittsburg Post. "Going to spend the summer



SHOES FOR EVERY SPORT AND RECREATION Sold by all good Shoe Dealers Worn by every member of the family

Cover Your Bottles With Leather.

In carrying a small bottle, for instance, of medicine on a voyage, it is an excellent plan to make a leather covering for it, and this is easily done. In this way if the bottle breaks there is no danger from the wounds caused by the glass, and the cover acts as a good protector. For a square section bottle, trace the profile on a piece of leather four times side by side, and add the small square representing the bottom to one of the profiles. Cuting out with the scissors, this makes only one seam at the end to be sewed up, also the parts at the neck of the bottle and the bottom

MINARD'S LINIMENT is the only iniment asked for at my store, and the only one we keep for sale. All the people use it.

HARLIN FULTON.

Pleasant Bay, C. B.

# GUARD THE BIRDS.

(Philadelphia Record) There are not enough birds in the country. The more birds the fewer insects pests. Even the unpopular sparrow does more good than harm. It is estimated that there are only 80 birds to the square mile, the number, contrary to general belief, being greater in populous areas than in the forests.

Ask for Minard's and take no other.

### HE WANTED IT DECIDED. (Ladies' Home Journal.)

"Ma! Ma!" bawled Freddie as the usual morning wash was going on. "Do my ears belong to my face or my neck?" Ma temporized. "Why, what is the matter?" she asked.
"I want it decided now. Every time you tell Mary to wash my face or my neck she washes my ears too."

Now that the season for going off for the winter is ended the season for going off for the summer approaches, leaving a short intervale for remaining at home.—Florida Times-Union.



# FOR DISTEMPER Pink Eye, Epizoctic Shipping Fever, and Catarrhal Fever

Sure cure and positive preventive, no matter how horses any age are infected or "exposed". Liquid, given on the tongue, acts on the Blood and Glands, expels the poison pus germs from the body Cures Distemper in Dogs and Sheep and Cholera in Poultry. Largest selling live stock caredy. Cures La Grippe among human beings and is a line kidney remedy. Cut this court free Booklet "Distemper, Causes and Cures," DISTRIBUTORS—ALL WHOLE-SALE DRUGGISTS





Do you know you can take as much crop off 100 acres properly drained as you can off 200 acres not drained and save half the labor? It's a fact. Do you know that proper, inexpensive tile drainage assists pulverization—lengthens the season—prevents surface washing—makes your land lighter to work—prevents drought and increases the quantity and improves the quality of your crops? Why not have us send you, today, free of charge, a very interesting booklet on this subject? Much to learn—nothing to pay. Don't neglect anything that will, nelp you grow better, in your bank account for every one that goes there now, and the Government lends you money for the Tile if desired. Write us today. Mention this paper. Your book is waiting.

Dominion Sewer Pipe Co., Limited

# AND NUMBER OF VALUABLE PREMIUMS GIVEN AWAY 1st Prize, \$25.00 in cash 2nd Prize, \$20.00 in cash 5th to 10th Prize, each \$5.00 in cash Sth to 10th Prize, each \$5.00 in cash Sth to 10th Prize, each \$5.00 in cash Below will be found 4 sets of mixed letters. Can you arrange these 4 sets of letters in such order that each set will spell the name of a well known wild animal? It is no easy task, but by patience and persoverance you can find them. By sending a proper arrangement you can win a Cash Prize. That may require a little of your time but if you think there is ONE HUNDRED DOLLARS AND NUMBER OF VALUABLE PRE-MIUMS GIVEN, that is worth paying attention to. Remember that all you have to do is to write these names (plainly and neatly) with your name and address in full, as in case of the both neatness and writing will be considered factors in this contest. To partake in this contest we do not require the spending of any of YOUR MONEY. LWOF Send your answer at once; we will reple by return mail telling you whether your answer is correct or not, and we will sund you a complete Prime List, together with the names and addresses of persons who have received Several Thousand dollars in Cash Prizes and lovely Premiums from us, and full particulars of a simple condition of salified. (This condition does not involve the specuding of any of your money). The winners in our last competition have not the privilege of competing in this contest will be judged by well-known-business man where housesty is inconstable who are strangers to our Company and their decision should be accepted as final. Send your answer in mediately. Address Canadiam Medicines Co., Dept. 18 Montreal, Que.