

Made

eration machine cool
lenser and manufac-
for small refriger-
electric fan is kept
to ventilate the
clear the air of al-

floor, in addition to
laboratory, there is
which two chemists
research works
sulfin. Clean well-
are provided for the
and a small operating
hand.

on of insulin is con-
applied for in var-
of the world by the
ators. These patents
ed to the University
committee, appointed
Governors, is respon-
sible for the promo-
tion and for the pro-
duction and distri-
bution in all coun-
tries of the original
investigators, Dr.
Mr. Best, receive no
from the patent but
the filing of other
might restrict the pre-
sents. In Great Britain
rights have been as-
signed to the British
Medical Re-
search Committee, the
University of the
Lity Company of
been licensed by the
to manufacture
of other firms
States is at present
tion. Rights in all
Great Britain have
to the University
of patents for insulin
been largely through
H. Riches, a patent
to, who has given his
University without

carrying on his du-
ty of the Insulin Labo-
ratory, continuing the fifth
in Medicine, which
in 1921 to collaborate
Banting in the re-
search of the discovery of
ment of diabetes.



of St. James's
the new United
to Great Britain,
Ambassador Harvey.

TO FLOAT 1,000,000 LOAN

Used to Defray
Caused by the
Civil War.

om Dublin says:—A
meeting of the Dub-
lin Commerce on Friday
discussed the proposed
after listening to a
speech by the Hon.
Blythe, the Fin.

meeting included prac-
tices of Dublin's big
and the attempt to des-
troy armed force had
beaten and there was
new, as the Govern-
ment all compromise
risk. The loan was
very expensive of the
but for the damage
suffered.

900,000 would suffice
needs and within a
rate's credit would be
South Africa, which
is per cent loan at
subsidies in the West
returned to Parliam-
ent. Reference for South
to Republicans.



of St. James's
the new United
to Great Britain,
Ambassador Harvey.

SMOKE OLD CHUM

The Tobacco of Quality
1/2 LB. TINS
and in packages

Manufactured by Imperial Tobacco Company of Canada Limited

HEALTH EDUCATION

BY DR. J. J. MIDDLETON
Provincial Board of Health, Ontario

Dr. Middleton will be glad to answer questions on Public Health mat-
ters through this column. Address him at Spadina House, Spadina
Circuit, Toronto.

In Great Britain alone the indirect waste attributable to disease amounts to \$100,000,000 yearly, according to a statement recently made by Viscount Astor in the House of Lords. This is no idle talk, made without due consideration, for Lord Astor has for a long time been interested in Social Reform and knows whereof he speaks. Just fancy the conditions that prevail in some parts of the British Isles where it has been found that there are more than two million slum houses which people were compelled to live in a state of "positive indecency."

Protesting against present conditions, Lord Astor declared that there are few things more costly than slums, which breed immorality, discontent and revolution. He added that the British Isles had little to fear in the way of a revolution, but he would lose faith in the people if they became reconciled to conditions under which they live at the present time.

The Archbishop of York, who supported Viscount Astor in his protest, thought that the average working-man's home should have three bed-rooms, a bathroom, a kitchen, and a sitting-room or living-room. Bishop Southwark, who lives in the East End of London, declared that bad housing was a fertile ground for agitators against the present system.

Though perhaps in a less degree, the same conditions prevail in our Canadian cities. There is far too much overcrowding, far too many areas that are so congested as to merit the name of "slums." When one realizes how injurious slum areas are, not only to the health and moral of those who live there, but also to the general appearance and general welfare of the

TO MAKE CARBON BLACK IN CANADA

But for one of the non-metallic minerals—carbon black—this paper might have to be printed in some other color, and the automobile tire industry would be severely handicapped. Carbon black, a product of the incomplete combustion of natural gas, has not as yet been manufactured in Canada, but the Mines Branch of the Department of Mines, through Mr. R. T. Elsworth, of the chemical division, is this season making a field study and chemical investigation of natural gas in western Canada with particular regard to determining the composition, character and gasoline content of these gases. At present natural gas containing ethane and other hydrocarbons is in great demand for the manufacture of carbon black.

Carbon black is a soft, light soot, somewhat similar to the soot produced by a smoking kerosene lamp. It is, however, a product of the burning of natural gas. The flame is impinged against a metal surface, which is kept cool by running water, and as the soot accumulates it is mechanically removed. The chief production centres at present are in West Virginia and Louisiana, where there are tremendous supplies of natural gas. Each of these states has stringent conservation legislation governing the use of the gas. In Louisiana, before the gas may be used for the manufacture of carbon black, the gasoline content must be removed, and in certain sections but only a limited amount of the gas is permitted to be used for carbon black manufacture. All possible steps must be made to avoid waste in the use of the natural gas. How


Evolution of Musical Culture

All music that attains a true position of respectability is good music. Even as the evolution of mankind is represented by groups of people at different stages of development, yet all progressing, all grades of music that form the true expression of any set of people, have their place in the evolution of musical culture, from the lowest to the most elevated chamber music.

As in the greater evolution, some people more fortunately disposed than others, move more quickly through the lower grades, and are apt to be impatient with and intolerant of the more slowly moving individuals. Here, as in all else, the trouble arises from those in advance who, through lack of sympathetic understanding, question the sincerity of the others. This results in recrimination and rebellion by those behind—the worst of all things, since it stops progress and begets the only bad music; that which is insincere.

EASY TRICKS

No. 54
Finding The Number



The magician counts the cards in a pack to show that there are only the usual 52. A spectator takes out of the centre of the pack any number of cards he likes, withdrawing them in a bunch so that the magician cannot know how many cards are taken. The cards are placed face down on the table and the spectator places either on top of the pack or beneath it a number of cards known only to himself. The cards are cut and immediately tells how many were added.

When the magician counted the cards it gave him an excuse for dealing the cards face upward so that he might remember the names of the top card and the bottom card. The fact that cards were withdrawn from the centre of the pack left these cards undisturbed. The spectator adds the number of cards he desires and the cards are cut. The performer now deals the cards face upward on the table, mentally counting until he reaches the first of the cards he remembered. He continues dealing until he reaches the other card he remembered. Then he counts the cards, silently to the end of the pack. The number of cards preceding the first card, plus the number following the second is the number added. If this number is obviously too large he gathers the cards up and deals them again, this time counting the cards between the noted cards. This will give the correct number.

(Clip this out and paste it, with other of the series, in a scrapbook.)

WORK-WORN WOMEN

Care of Home and Children Often Causes a Breakdown.

The woman at home, deep in household duties and the cares of motherhood, needs occasional help to keep her in good health. The demands upon a mother's health are many and severe. Her own health trials and her children's welfare exact heavy tolls, while hurried meals, broken rest and much indoor living tend to weaken her. No wonder the woman at home is often indisposed through weakness, headaches, backaches and nervousness. Too many women accept these visitations as a part of the lot of motherhood. But many are the cause is simple health troubles are the cause is simple and relief at hand. When well, it is the woman's good blood that keeps her well; when ill she must make her blood rich to renew her health. The nursing mother more than any other woman needs rich blood and plenty of it. There is one way to get this good blood so necessary to health, and that is through the use of Dr. Williams' Pink Pills. These enrich the blood, and through their use many weak, ailing wives and mothers have been benefitted. If you are ailing, easily tired or depressed, it is a duty you owe yourself and your family to give Dr. Williams' Pink Pills a fair trial.

You can get Dr. Williams' Pink Pills through any dealer in medicine or by mail at 50c a box from The Dr. Williams' Medicine Co., Brockville, Ont.

Fast Codfish Dressing.

Out on the foggy Grand Banks the most arduous task of the cod fisherman is "dressing down." Everyone dreads it, for it means working regardless of hours until the job is done. If the catch has been heavy, midnight, or even the dawn following, sees the entire crew hard at it by the light of flares. No one, not even the cook, commonly known while afloat as "the doctor," may have any respite. The deck is slippery with parts of the thousands of cod that have been slid from the knife of the slitters into the hold. Cut fingers are of no avail as an excuse for laying off.

Power has taken a lot of the meanness out of life at sea and the same little gasoline engine that hoists the sails and weighs the anchor will now have to do—and the crew, less. The "Iron Splitter" does the work of 60 to 75 men who now wield sharp knives on the Grand Banks off Newfoundland, up along the Labrador, as well as in the localities frequented by fishermen from France, England and Scandinavia. Every second the new machine takes out a dressed fish and as often it turns out a dressed fish. It performs all the usual operations of splitting, removing the backbone, cleaning and washing. This ingenious machine was perfected in Seattle, Washington, by the company which perfected, in 1905, a somewhat similar machine called by fishermen "The Iron Chink," because it took the place of thousands of Chinese who were formerly employed to clean fish in the salmon canneries of the North Pacific.—Scientific American.

THE FALL WEATHER HARD ON LITTLE ONES

Canadian fall weather is extremely hard on little ones. One day it is warm and bright and the next wet and cold. These sudden changes bring on colds, cramps and colic, and unless baby's little stomach is kept right the result may be serious. There is nothing to equal Baby's Own Tablets in keeping the little ones well. They sweeten the stomach, regulate the bowels, break up colds and help baby thrive. The Tablets are sold by medicine dealers or by mail at 25 cents a box from The Dr. Williams' Medicine Co., Brockville, Ont.

Working Up Tailings.

South Africa, home of the diamond and with great gold mines, finally is working up the "tailings" or dumps from earlier and cruder operations. In Kimberly, for instance, many small diamonds are being recovered from the town streets which for years were filled and repaired with dirt excavated from the diamond mines. One block alone is said to have yielded more than \$40,000 in gems.

In the Rand, where gold is mined extensively, electrical hoists built in America are hauling out 140,000 tons of ore a month instead of the best previous amount of a bare 100,000 tons. Automatic checks prevent the driver from running the hoist too fast and also check the elevator when it reaches the proper height. Each hoist brings up 10,000 pounds of ore from a depth of 5,000 feet at a speed of 4,000 feet a minute.

The trap-door spider constructs a trap-door which closes by gravitation, the edge being specially weighted to close the door automatically when the spider goes in or out.

The end of colonization, it is estimated, will be reached in about two hundred years time.

Ask for Minard's and take no other.

Mrs. Dyer Fell On to 72 Lbs.; Gains 33 lbs. in Ten Months

"For nearly seven years," recently said Mrs. Katie Dyer, of 21 Bank St., Hamilton, Ont., "I had suffered from a complication of troubles peculiar to women, and finally my strength all left me and I broke down completely."

"When I began taking Triole I only weighed seventy-two pounds, and had been so weak and nervous for nearly two months that I had to be assisted from my bed to my chair."

A Mammoth Water Supply.

Engineers have on many occasions had to construct enormous water works in order to provide us with the most vital necessity of life, but few of us have stopped to consider the cost of bringing water to our homes.

To construct a lake 40 miles long, 25 feet deep, holding 13,683 million gallons of water, seems a stupendous task, but such are the facts relating to the Vaal River Barrage of South Africa, which has just been officially opened.

The scheme, which has taken nearly ten years to carry out, will supply Johannesburg and the Rand with twenty million gallons of water a day. The Barrage, costing almost \$2,500,000, is 1,400ft. long, and stands on 25 concrete piers. Each pier is 8ft. thick, 24ft. 6in. high, and 55ft. long. The 26 steel sluice gates closing the openings are 25ft. high and 32ft. 6in. wide. Each gate weighs about 25 tons. A wagon road and a railway track run along the top.

All the water is passed through mechanical filters, and carried along 43 1/2 miles of steel pipes varying in diameter from 18in. to 24in., and costing \$2,275,000. The whole scheme cost \$7,500,000, of which \$60,000 was spent in providing quarters for the men engaged on this huge and important landmark in engineering progress.

MONEY ORDERS.

Pay your out-of-town accounts by Dominion Express Money Order. Five Dollars costs three cents.

During a recent voyage across the Atlantic the commander of the Majestic was on the bridge for sixty-nine consecutive hours, while the liner was passing through the fog.

Keep Minard's Liniment in the house.

Number of men under arms in Europe in 1913, 3,745,179. In 1923, Germany, Austria, Bulgaria disarmed, 4,954,965.

Toothache

Bathe the face. If there is a cavity in the tooth place in it a piece of cotton saturated with Minard's

MINARD'S "KING OF PAIN" LINIMENT

How to Purify the Blood


"Fifteen to thirty drops of Extract of Root, commonly called Mother Tingle's Curative Syrup, may be taken several times a day, and at bedtime, for indigestion, constipation and bad blood. Persistence in this treatment will give permanent relief in nearly every case." Get the genuine at druggists, 50c. and \$1.00 bottles.

MURINE Keeps EYES Clear, Bright and Beautiful

Write Murine Co., Chicago, for Eye Care Book

Mother! Give Sick Baby "California Fig Syrup"

Harmless Laxative to Clean Liver and Bowels of Baby or Child.



Even constipated, bilious, feverish, or sick, colic babies and children love to take genuine "California Fig Syrup." No other laxative regulates the tender little bowels so nicely. It sweetens the stomach and starts the liver and bowels acting without griping. Contains no narcotics or soothing drugs. Say "California" to your druggist and avoid counterfeits! Insist upon genuine "California Fig Syrup" which contains directions.

ASPIRIN

Say "Bayer" and Insist!



Unless you see the name "Bayer" on package or on tablets you are not getting the genuine Bayer product proved safe by millions and prescribed by physicians over twenty-three years for Colds, Headache, Toothache, Earache, Rheumatism, Neuralgia, Pain, Pain.

Accept "Bayer Tablets of Aspirin" only. Each unbroken package contains proper directions. Handy boxes of twelve tablets cost few cents. Druggists also sell bottles of 25 and 100. Aspirin is the trade mark (registered in Canada) of Bayer Manufacturers of Non-constituted or Salicylic Acid. While it is well known that Aspirin means Bayer Manufacturers, to assist the public against imitations, the Tablets of Bayer Company will be stamped with their general trade mark, the "Bayer Cross."

MOTHER OF TWIN BOYS

Tells How Lydia E. Pinkham's Vegetable Compound Relieved Her of Inflammation and Great Weakness

West St. John, N. B.—"I was in a general run-down condition following the birth of my twin boys. I had a great deal of inflammation, with pains and weakness. Finally my doctor recommended Lydia E. Pinkham's Vegetable Compound. He said that your medicine would be the only thing to build me up. I am sure he is right, for I am feeling much better and am gaining in weight, having gone down to ninety-three pounds. I was in bed for over a month, but am up again now. I have recommended the Vegetable Compound to my friends and give you permission to use my letter."—Mrs. Elsie A. HARRISON, 82 Rodney St., West St. John, N. B.

There are many women who find their household duties almost unbearable owing to some weakness or derangement. The trouble may be slight, yet cause such annoying symptoms as dragging pains, weakness and a run-down feeling.

Lydia E. Pinkham's Vegetable Compound is a splendid medicine for such conditions. It has in many cases relieved these symptoms by removing the cause of the trouble. It is a safe, reliable medicine, but one of many.

You might be interested in reading Mrs. Pinkham's Private Testimony and the "Affirmations of Women." For you get a copy free by writing the Lydia E. Pinkham Medicine Co., Lowell, Mass.

COLD IN THE HEAD? Get quick relief. Rub nose inside and out with

Mentholatum

At all Drug Stores. Write for Free Sample.
THE MENTHOLATUM CO.
Bridgetown, Ont.

THE CHILDREN'S COUGH REMEDY

MINTINE

Write for Free Sample.
THE MENTHOLATUM CO.
Bridgetown, Ont.