fully drity and stood in need of a tub-bing or something more rigorous and ef-ficacious, writes a foreign correspondent of the Boston Transcript.

The task of cleaning Big Ben is not one to be lightly undertaken, for it in-volves the disintegration of three dis-tinct environ of prophysics and engages. tinet series of mechanism and engages four workmen for more than a fortnight. The quarters striking works are the most elaborate because of the many wheels, cams and levers controlling the four belis that make up the chime. The hour strike is simplicity itself in com-parison, but the weight of the great drum around which is wound the wire cable sustaining the weight of one and a half tons had to be lifted by means of ropes and double pulleys. Even then it was raised barely six inches to eight inches from its permanent resting place. The working parts, which correspond to the ordinary works of a clock, look the most simple of the mechanism, but here is the nicety which gives to Ben the re-putation for reliability that London's workday people so largely depend upon. Yet even upon this there is a check, for a telegraphic needle connected with the Royal Observatory at Greenwich flutters at every hour, or is expected to.

The pendulum, swinging on a great shaft with a full stroke of two seconds, is over 13 feet long, with a bob of four hundred-weight on the end. It is suspended from a piece of spring steel, one-thirty-second of an inch in thickness. In taking part the quarter strike a full week was consumed; meantime the chiming quarters, which everybody knows are to the first four notes of the fifth bar of the introduction of Handel's "I Know That My Redeemer Liveth," did not announce the quarters. Work upon the hour striking parts was then begun, and when the clock was stopped there was still the labor of days remaining on this section of the task. Barriers had to be placed across the well to catch the half-ton weight that drives the working part, otherwise it would have dropped to the bottom of the well shaft,

Itali of 175 feet.

Every component part was cleaned, inspected and returned to its place, but the closest scrutiny failed to bring to light a single case for repair. One shaft (that upon which the great drum turns), which sustains the weight of one and one-half tons and drives the striking mechanism of Big Ben, shows no marked wear, and the gun metal bearings on which it works appears quite unworn. Yet that axle has made in the last fifty years 300,000 revolutions in the striking, and as many more in the winding. Evidently they used good metal in 1854.

All the parts of the mechanism of Big en are made of cast iron. Nowadays steel would be used. It is the largest, most powerful and most accurate clock in the world. in the world. It takes two men five hours, three times each week, to wind it up, and there are 374 steps which they have to mount to reach the clock room. The great hour bell weighs 13½ tons and the hammer which strikes it weighs 4 cwt. The aggregate weight of the four quarter bells is nearly eight tons, and they weigh, respectively, in ascending scale, 3 tons 18 cwt., 1 ton 13 cwt., 1 ton 6 cwt. and 1 ton 1 cwt. Twice a day its time is telegraphed automatically to Greenwich, and it is in the Royal Observatory there that it is checked.

An interesting clock has been recently installed in the bell tower of the St. Gervais Basilica at Avranches, France. The clock was constructed by Mr. Gourdin at Mayet (Sarthe) and is said to be the largest in France.

ating works and four striking The former, which is provided with a remontoir escapement, regulates and disengages the striking works. By means o w steel rods, 124 feet in total length, hollow steel rods, 124 feet in total length, and six gear trains, it actuates seven dials, namely, four texternal dials, 4 feet 6 inches in diameter, and three internal dials of smaller dimension. The regulations ing works at the same time operate a large bronze wheel upward of 3 feet 4 inches in diameter, carrying ninety-six pins, each of which corresponds to quarter of an inch, and by the aid of which the various ringing effects are produced automatically. These ringing effects are obtained by many control of the control of th fects are obtained by means of four clockworks, one of which serves for the clockworks, one of which serves for the hours, one for the several chimes which are the following: The quarter ringing works will play the hymn "Inviolata," the first five notes being produced at the first, quarter, the next eight notes with the second, and eleven notes with the third quarter, while with the fourth the third quarter, while with the fourth quarter, before the hour is rung, the whole phrase. "Inviolata, integra et casta es Maria." is heard.

At noon and at 7 o'clock in the eevning the "Inviolata" is automatically reced by some tune varying according to the season.

The hours are rung by means of a hammer 220 pounds in weight on a bell weighing 14.228 pounds, the working weight of this clockwork being only 66 weight of this clockwork being only 67 another 22 bells, representing a my first assignment on a newspaper. I weight of this clockwork being only on pounds. Another 22 bells, representing a chromatical scale varying from 72 pounds to 4.916 pounds in weight, has been rovided for ringing the quarters. The most result of the pounds in weight of this clockwork being only on pounds. Another 22 bells, representing a my first assignment on a newspaper. I went out to interview a man, and it may interest you to know that I got a good deal more information out of him than you're going to get out of me."

THE FAVORITES

"Silent as the Sphinx!"

THE MOST PERFECT MATCHES YOU EVER STRUCK

Always, everywhere in Canada, ask for Eddy's Matches

markable feature of the latter is that are number of tunes is increased at will the cylinders on which the cams of the nammers are located being readily exchanged like those of a phonograph, provided the times in question fit into the series of notes represented by the 23

> The dials of the clocks are of ordinary dimensions, only the power and maticoperation of ringing mechanism, as maticoperation of ringing mechanism, as well as the weight of the hour's hammer being remarkable. The aggregate weight of the whole clockwork is 4,409 pounds, its length being 13.6 feet, its breadth 6.2 fet and its height 7.8 feet. The wheels of the ringing works are 23.6 inches in

## OLD AGE AND ARTERIES.

#### French Physician Seeks to Upset Theory Commonly Held.

Theory Commonly Held.

For a long time now the books have put down arterio-sclerosis, or hardening of the walls of the arteries, as a maledy of old age, indeed the malady of old age. A book published only the other day by a physician of long standing on how to attain old age contained the same familiar declarations. It has even been said that hardening of the arteries is what causes old age, and that if the arteries could be prevented from hardening old age could be baffled, deferred, put off indefinitely.

Now M. Lancereaux has told the French Academy of Medicine that this is not so. He finds arterio-sclerosis rather in the young than in the old, and says that it is less harmful in the than in the younger, and that the way

than in the younger, and that the way to cure it is to begin early with young persons predisposed to it through heredi-ty, much as one should do to cure young

girls inclined to hysteria.

"Arterio-sclerosis is not a disease of old age," said M. Lancereaux, "but of middle age. It does not appear after the sixtieth or sixty-fifth year, or at any rate undergoes a period of abate-ment then which renders it less dan-

"The disease is not rare among adults, even between 20 and 30. It is more frequent among those between 30 and 40. But it is between 50 and 60 that it is most prevalent, and in such cases most often brings death between 50 and 65.

"Its development is more rapid among young persons than in the aged, and when occurring in the aged it is the less femiliable."

formidable. M. Lancereaux attacked another the-M. Lancereaux attacked another the-ory when he declared that, contrary to the general belief among the doctors, arterio-sclerosis was not commonly due to prolonged indulgence in alcoholic drinks, no more was it due to abuse of

tobacco. The proofs offered that it came from those causes, he said, were wholly insufficient. Neither was poisoning through too much meat in the diet accountable for the affection, nor was

alimentary excess.

According to M. Lancereaux gouty in-flammation is most often the cause of flammation is most often the cause of the malady. In treatment it was neces-sary to attack the initial phenomena as shown in nervous disorder.

# Minard's Liniment Cures Burns, etc.

## Invention of Slide Rule,

It is interesting to note, says the Scientific American, that the slide rule, which but lately has become universally used for calculations, was invented nearly 300 years ago. An article in Zeitschrift fur Vermessungswesen calls attention to the fact that Gunter, shortly after his bringing out Gunter, shortly after his bringing out the trigonometric logarithm tables in 1620, placed logarithmic scales on woode arules, and used a pair of divisor rules, and used a pair of divithms. In 1627 these logarithmic scales were drawn by Wingate on two separate wooden rules, sliding against each other, so as to render the use of dividers unnecessary and in 1657 or over 250 years ago, Partridge brought out the slide rule in its present form

## It comprises five works, namely, a re- Minard's Liniment Relieves Neuralgia. Knew of One.

Detective—I never saw your husband, you know, madam. Has he any peculiar features or marks about him? Deserted Wife-Yes, sir; just above his right ear I think you will find a mark shaped like the corner of a flat-



The slight trouble of looking for the name "Salada" on a package of tea is well repaid by the satisfaction you have in drinking it.

# Easy to Undo.

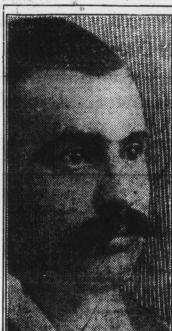
He (boastingly)-It takes six generations to make a gentleman, you know. She (calmly)—Yes; and what a pity that it only takes one generation to unmake him!—Chicago News.

Minard's Liniment for sale everywhere.

# By Way of Encouragement.

"May I ask how you earned your first

Mr. L. A. Cote, Assistant Manager Hotel Victoria, Quebec, Canada, writes a letter to the Peruna Drug Mfg. Co.



### MATON A STAN AND ALLE

## AFTER USING PE-RU-NA I AM COMPLETELY CURED

Mr. L. A. Cote, Assistant Manager Hotel Victoria, Quebec, Can., writes: "I suffered with catarrh for about eight years' and have tried many physi-cians or specialists for this sickness, and never obtained any relief. It was only after using your Peruna medicine that I began to get better. I have used ten bottles up till now, and am glad to say that I am completely cured. I am glad to let the public know it. A good thing is never too dear."

We have on file many testimonials

like the one given here. Probably no other physician is the world has received such a volume of enthusiastic letters of thanks as Dr. Hartman for

## A Worthy Desire.

An ambitious young Chicagoan re-ently called upon a publisher of novels a that city, to whom he imparted confidentially the information that he had decided to "write a book," and that he would be pleased to afford the publisher

the chance to bring it out.
"May I venture to inquire as to the nature of the book you propose to write?" asked the publisher, very polite-

"Oh." came in an offhand way from the aspirant for fame, "I think of doing something on the line of 'Les Miserables.' only livelier, you know!"—Lip-

# Black Watch

**Chewing Tobacco** Rich and satisfying. The big black plug.

Brandon, "The Wheat City." Just as Winnipeg has changed its as-

pect by laying down asphalt and granpect by laying down aspared olithic sidewalks all over the place, so "The Wheat City," the with Brandon, "The Wheat City," the second town of Manitoba, 135 miles west of "The Peg." Here the change has been wrought in three years. Imagine a place of 15,000 people all on granolithic, not one old ramshackle house in lithic, not one old ramshackle house in it, all the residences either newly paint ed, or stone, concrete, or brick; every house with its vegetable and flower garden; many handsome but no pompous dwellings; the main streets having such bank insurance, and loan company buildings, such store fronts, etc., as might dignify a place of 100,000 souls. Spread the vision over no flat of land, but over a prospect rolling and rising high and far back from a fine river the igh and far back from a fine river the Assiniboine. Conceive some great government structures on the bluffs of the opposite shore. See interminable vistas fields of wheat stubble, which are as sand for color when the sky is overcast and as gold when the say is overcast and as gold when the sun shines. Then you have a faint picture of beautiful Brandon. How the city council contrives to keep the tax rate down to twenty mills while simply lavishing improvements. ments on the place must remain a mystery, except on the theory that municipal government here is vastly more honest than in the east. One gasps to imagine what the Boston rate would be the rate in filthy-streeted Montreal, or the rate in High-screeced Montrear, hal literally the whole of either city been provided with the most perfect and seemly of pavements and sidewalks since 1905—Special Correspondence Boston Transcript.

# Arranging the Time Table.

A new railway was being built, and, the route including a small farm, offi-cers of the line paid a visit to the owners an old lady.
"Madam." said the surveyor, "we understand that you own this farm, and it is my duty to inform you that our new railway will run through your

"Oh, will it?" said the old lady. "Well, on, will it? said the old lady. Well, let me tell you that the last train will have to be not later than 9 o'clock, because you'll not eatch me sitting up after that to open the doors for it or anything else, So mind."—Philadelphia Record.

He—"The scientists say that kissing must go." She—"Well, it doesn't go with me, and don't you try it."

#### THE GIRL OF THE GRAY HORSE Makes a Daily Gift of an Apple Sweets to Her Favorice.

George, a gray horse attached to one of the newspaper delivery wagons in Park row, is the recipient every day of a large red apple from a young woman. a large red apple from a young woman.
After purchasing an apple from the
Italian fruit dealer by the Sun building
the young woman walks over to the
curb and lets George take the apple
from the palm of her hand. After patting him on the neck and speaking some
soothing words to him she passes on.
The fruit dealer who witnesses this
performance every day says that the

The fruit dealer who witnesses this performance every day says that the young woman has been giving the horse apples for the past five years, seldom missing a day. Sometimes she does not purchase an apple and instead brings a few lumps of sugar from home.

On one occasion the fruit dealer of-

fered her a three cent apple, but she declined to take it, saying that a three cent apple was not substantial enough for George. She wants a five cent apple for her favorite.

Rain a Poor Substitute. Irrigation is better than rain, infinite-y better. That sounds like a paradox, out instead it is almost a truism. What is better—to give a plant just as much and no more water than it needs and just when it needs it; or to parch it or drown it, according to the whim of the clouds? The rain falls upon the just the clouds? The rain falls upon the just and upon the unjust alike; upon your strawberries that cry for it and upon your sugar-beets that want uninterrupted sunshine. Rain is all right in its place, but it is a very poor substitute for irrigation. Otherwise why would the lawns of our cities be sprinkled or irrigated instead of leaving them to the tender mercy of the clouds? No. Arid lands are more fertile than ordinary lands are more fertile than ordinary lands, and irrigation is better than rain. —Walter E. Weyl in Success.

## Filial Devotion.

A southern congresman tells of darkey in a Georgia town whose best quality is his devotion to his aged par-

he had never married.
"Why, boss," explained Pete, "Ise got an ole mudder. I had t' do for her, suh. Ef I doan' buy her shoes an' stockin's she doan' git none. Now, bos, you see ef I was t' git married I'd have t' buy 'em fo' mah wife, an' dat'd be takin' de shoes an stockin's right outer my ole mudder's mouf."—Harper's Weekly.

## A Well-Known Man.

Minard's Liniment Co., Limited. Dear Sirs,—I can recommend your MINARD'S LINIMENT for Rheumatism and Sprains, as I have used it for both with excellent results. Yours truly, T. B. LAVERS,

# How He Rode.

"Is Mr. Bromley in?" asked the caller. "He is not, sorr," Pat answered poitely. "Shure he won't be in till 4 'clock. or mebbe after."

"Where's he gone?" "He went to ride in his interim, sorr."

"His interim. 'Tis a tony name for buggy, I'm thinking. Half an hour ago Misther Bromley says to me, 'Pat,' says he, 'I'm ixpictin' Misther Dobbs here some time this afternoon, but I guess he won't be afther gittin' here yet awhile, so I'll go downtown in the interim. An' with that he druv off in his buggy."

# Sick Women

lives of females at the present that lurked in the woods up back of the that lurked in the woods up back of the pasture on dark nights and screeched like orphan children in distress for the imprudence or neglect during some critical period of their you went to the rescue. I never exactly peculiar seasons, causing obstruction, irregularity, etc., which, if not relieved, weakens and deranges the whole sy-

# **FERROZONE**

**WOMEN'S RELIEF** Ferrozone is a remedy prepared entirely from vegetable the nerves, give tone to the stomach, cure headache, backache, cramps and assist Nature in resuming her regular functions.

Ferrozone is pleasant, safe and reliable; 50c per box, or 6 for \$2.50. At all dealers.

#### Chronological. Man (to boy at roadside)—What time

Boy—Purty near 12 o'clock.

Mah—I thought it was more than 12.

Boy—Nope. Never gets more than 12 this country. Begins at 1 again.

# The Stakes.

"What's this lunch doing in the safe?" "That's an election wager," explained the junior partner. "A fellow just bet me a dollar to a doughnut on the re-sult."-Louisville Courier-Journal.

In the Autumn Rheumatism is so general that all our readers so suffering will be glad to hear that a letter ad-dressed to The Dr. Williams' Medicine Co., Brockville, Ont., will be to their advantage. Write to-day,

# CORNS CURED u can pa'nlessly remore any corn, etc., soft or bleeding, by applying Putnam' i Extractor. It never burns, leaves no sen alias no acids: is harmless because composed healing guns and baims. Fifty years! Cure guaranteed. Sold by all druggissbottles. Refuse substitutes.

# PUTNAM'S PAINLESS CORN EXTRACTOR

#### He Would Return.

Marlow was 3 years old. One day his other said to him: "Now, Marlow, you may go outdoors to play for a which but if I see you crossing the street to play with that naughty little boy. Willie Burr, again, I'll give you a hard, hard spanking."

Half an hour later the mother looked

out after her boy and saw him playing with Willie Burr. She raised the window and called, with forced gentlenesss

"Marlow come here to me."

Marlow came, but as he did so he turned to his companion and said:
"You stay wight here, Willie. I'm doin' in to det spanked. I'll be wight back."—Delineator.

## GOOD MEDICINE FOR MEN

When a man has lost ambition to "dig in" and stay at things—when he complains of headache, fulness in right side, pains in the shoulder blade—it's purely a case of "Liver."

These symptoms invariably indicate a clogged, inactive liver. The body can't get rid of er. The body can't get rid of its waste, and the whole sys-tem is half paralyzed.

## Dr. Hamilton's Pills

Being a mild vegetable laxa-tive, they produce results in a few hours. The bilious headache and constination are cured, spirits rise, complexion clears, animation returns. Nothing in the calendar so efficient for that tired, lazy feeling as Dr. Hamilton's Pills. Very mild, don't interfere with work, in-variably do lots of good. Try a 25c box, all dealers.

# **Brace You Up in One Night**

## Who Columbus Was.

In the afternoon in all the schools

a part of the time was devoted to the study of the life and deeds of Columbus An amusing reply was given by one

of the pupils. A teacher had told the class of the wonderful voyage of Columbus and how he insisted on continuing the voyage after the other men were clamoring to return. Then she asked: "Who was Columbus?" with the view of hearing how well they had followed her talk.

One little hand went up.
"Well, Johnny, who was he?" ask-

"Well, Johnny, who was he?" ask-ed the teacher.

"Columbus was the gem of the ocean," was the reply.—From the Bal-timore Sun.



Pale, weak and nervous people need a tonic that will build them up and make them well and strong. Celery King is the tonic that will do these things. Large package 25 cents, at dealers or by mail. S. C. Wells & Co., Toronto.

# Being a Boy No Fun.

When I was a small, unfinished boy. with my bare feet so sadiy sun-warped Much of the suffering in the that my superior toes stuck straight up

had actually perished in that manner had actually perished in that manner. Those days were full of terrors. There was the hoop-snake, that took its tail in its mouth and rolled rapidly down the hill in pursuit of you; the Personal Devil, ready to grab you every time you had any fun: and George Washington, always waiting to catch you in a lie. Your conscience was forever giving you Your conscience was forever giving you Hail Columbia—half the time you didn't substances, that possesses se-dative, alterative, and tonic go back up in the corner and be on the properties which, when com-hardly, in being alive.—Tom P. Morgan in Smart Set. een watch the whole time.

# Sheep Raising in Australia.

"Sheep raising conditions are about the same in Australia as they are here,' said F. L. Burt of South Dakota, who is engaged in the sheep raising business both in this country and in Australia.

"The sheep over there are raised mainly for their wool, although the meat is also continually bothered with the most distressing backaches, headaches, respectively." I was continually bothered with the most distressing backaches, headaches, and bearing down pains, and I kent for their wool, although the meat is also quite a valuable product for both the iceal and export trade. The price of both wool and meat in Australia is regulated by London values. The meat, which is shipped in cold storage vessels, can be kept fresh very easily. Farm laborers in Australia receive in the neighbor-hood of \$20 a month, which is practically the same as they get here. In the towns the mechanics are paid about \$3. 50 to \$4 a day. Living may possibly be a little cheaper over there, but the difference is not very great. As far as agricultural conditions generally concerned you have many advantages here. The climate in Australia is too dry. The winters there are not so cold, wever, and while the summers are hot the heat is not oppressive."-From the **Paltimore** American

# Needed Explaining,

"That stocky looking man over there once killed a man with one punch."
"What is he—a pugilist or a bartend-

## ISSUE NO. 44 1908

HELP WANTED-FEMALE. MANTED-LADIES TO DO PLAIN AND agic sewing at home, whole or sometime: good pay; work sent any distance correspond. Send stamp for full particulars. National Manufacturing Co., Montrail

#### Suggested Thought. "Biddy," said an Irishman to the girl

of his heart, "did ye iver think o' mar-"Shure now," replied Biddy, looking demurely at her shoe—"shure now, the subject has never entered me mind at all, at all!"

"It's sorry Oi am," said the suitor, as "Wan minute, Pat," said Biddy softly

"war minute, Pat," said Biddy softly

"ye've set me thinkin'!"—Philadelphia
Inquirer.

Minard's Liniment Cures Dandruff,

ENGLISH SPARROW CLUB. Its Mission Is to Rid the Country of

the Pests.

In Essex, England, the Elsenham Spar-row Club flourishes. It holds a meeting and dinner once a year, at which time the members give an account of their ef-forts toward keeping down the sparrow pest. Its President, Walter Gilbey, de-scribes its work as follows:

"All the farmers and most of those who have gardens in the parish, which

who have gardens in the parish, which covers 1,830 acres, and some tenants of neighboring farms, belong to the same club, which was established seventeen years ago. The rules are very simple Each member undertakes to kill on sparrow for each acre of his holding besparrow for each acre of his holding be-tween Sept. 1 and May 1, and sends the heads to the local innkeeper, who keeps a record of them. If the member's tally falls short of the total he ought to send he is fined 1d. for each head lacking, the money going to a fund which is spent in refreshments at the annual supper of the club held at the inn. The sum raised by fines however, is 1 am informed. the club held at the inn. The sum raised by fines, however, is, I am informed, actically nil.

practically nil.

"Two sparrows an acre were killed annually during the first two or three years of the club's existence, and the average number of heads now sent in is a controlled to the club's existence. about 3,000 a year. In addition the members kill a large number of young spar-rows during the breeding season, but of these no record is kept."—From Forest



As a result, the Underwood is mon

UNITED TYPEWRITER CO. Adelaide St. East - TORONTO

# Identified.

She walked into the International Bank and pushed a cheque through the window.

"You will have to be identified," said the teller. "I don't know you, madam." "You don't, eh?" said the woman, with fire in her eye. "Aren't you the father of that family that has a flat in Er-

mita?" "Well, I'm the red-headed woman that your wife is always complaining about. When you left home this morning I heard you say: Dear, if our children get to fighting with that old fury down stairs don't quarrel with her. Wait till I get home and let me talk to her.' Now

you think you can get the best of an

argument with "Here's your money, madam," said the



This woman says Lydia E. Pinkham's Vegetable Compound cured her. Read her letter.

Mrs. J. A. Laliberte, of 34 Artillerie St., Quebec, writes to Mrs. Pinkham:

most distressing backaches, headaches, and bearing-down pains, and I kept growing more and more nervous.

"Lydia E. Pinkham's Vegetable Compound relieved me of all these distressing symptoms and made me a well woman. I would advise all suffering women, young or old, to use Lydia E. Pinkham's Vegetable Compound."

the FACTS FOR SICK WOMEN. For thirty years Lydia E. Pink-ham's Vegetable Compound, made from roots and herbs, has been the standard remedy for female ills, and has positively cured thousands of women who have been troubled with displacements, inflammation, ulceration, fibroid tumors, irregularities, periodic pains, backache, that bear-

tion, dizziness or nervous prostration. Why don't you try it?

Mrs. Pinkham invites all sick women to write her for advice. She has guided thousands to health. Address, Lynn, Mass.

ing-down feeling, flatulency, indiges