

stranger it must' seem to consider | floor. lord over matter, generally loses sight done, of the fact that this dominion is a

fed with fuel and in the quality and | Eight methods were tried raising the power for every member. scity for work.

the French scientists be considered, one went up at the opposite side of photographic plate. There is a practical side to it. The the pulley. of him with less fatigue than at pre- While in a day he could produce but

By means of a system of tests, it will be possible to learn exactly which less chain; then, in turn, the capstan, method is better, and to what degree, as expressed in a unit of measurement | the rope, the inclined plane with the You may as well get acquainted with and barrow, and the shovel. used occasionally in this article. It is The meaning is simple. Suppose you planation of these methods. One can

wish to lift an object weighing one for instance, easily see how a bag

on's self a combination of mechanical To return to the soldier. How can In preparing the analogy of the hu- pacity. rinciples, with the various members the working capacity of this human man motor to the mechanical motor. g to the same laws as pis- motor be described in kilogram-met- one must begin with what might be walking and running it in some deton rods, levers, pulleys and cranks! ers? Some experiments reported from called "firing up the furnace," which gree is an application of the piston Man, in looking upon himself as the France explain just how it may be is nothing less than placing food in idea. And in this connection the

Science, you may have noticed, is never content except when shattering it if he could do it in one? Or why some cherished delusion of man. So the could do it in one in taking care of this steam that the man should be the swiftest runner for

quantity of fuel depends much of its dirt with a shovel; wheeling it up an | This, to be sure, is neither a new inclined plane with a barrow; carrying | truth nor an accidental discovery; iny are engaged in trying to dis- it up a plane on his back, raising it deed, it is undoubtedly the knowledge cover how to feed our motor in order with a bucket with a rope by hand; of the truth that furnished the idea

that we may get the most work out using a pulley with a drum and lever; for the invention of the valves, of it, and have even gone into the lifting it by a capstan operated hori- Another mechanical analogy is found matter of utilizing waste just as ma- zontally; lifting it by means of an in the eye-the action of the light on chinists have shown how steam which endless chain and buckets operated by the retina and its transmission to the escapes from the cylinder of a loco a crank, and lastly, lifting it simply brain by the optic nerve is almost motive may be caught and used again. by his own weight, that is, by riding | identical with the catching of an ch-Not simply a fad must this work of down in an empty bucket, while a full ject by a lens and recording it on a

> It was found that this last method is found in the action of sound waves The bending of the arm and leg are While in a day he could produce but clearly nothing more than applications of the lever principle,

38.880 kilogrammeters of work by

meters-more than seven times as

by the worker's weight came the end-

the crank, and drum, the pulley and

load on the worker's back, the plane

Determining Working Power.

Next in order of procedure to lifting

Take a soldier for instance. In one tossing the dirt up with a shovel, he

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country he is loaded down with in- could by other means do 280 kilogram-

Some of the figures given in connec tion with the tests made in France recently admit of a very amusing calculation. Every one recalls from school books the queer challenge Archimedes, the discoverer of the lever principle-"Give me a fulcrum for my lever and I will move the world."

He meant it, theoretically, if no iterally. Indeed, we are left to be lieve that the old mathematician died grumbling because Mars or Jupiter or some other planet didn't come near enough so that he could use it as a support for his lever while he should earth bobbing out of her orbit. Let Archimedes now- if he be suscepible to mundane impressions be asared that he could never fulfil

The French scientists say that a man can do 172.8 kilogrammeters of work in a day with a lever. Using this as a basis, it is calcuelse-to have moved the earth one milimeter (one-thousandth of a meter)

would require more than 900,000,000,

boast. The science of the human

In other words, if the learned Syraed constantly during the 2,000 years since his declaration, he would have moved the earth only the forty-fifth meter-an inconceivably small distance. All engineers know that machines

should be built with special reference

to the resistance they must offer to

the work they have to do.

For instance, if the piston of a steam engine should, by a direct application Marked benefit immediately follows wedding ceremony. of power, be used in an effort to raise their use. an inch from the ground, the cylinder would have to be made very large. If it were desired to lift but one strong and vigorous. 200 times smaller than in the other the blood and consequently the whole pains. It stops rheumatism, lumbago, case, but the movement of the piston system benefits. would have to be 200 times faster. In No other medicine tones and braces remedy at hand and keep these aileach instance the volume of steam like Br. Hamilton's Pills; they at once ments away. Large bottles, 25c., at would be the same if the same pres- cure biliousness, headache, dizziness, Wade's Drug Store. sure be assumed.

A Muscle As A Piston.

mine the horsepower of a locomotive. in limited range, but have a large ca-

When the human motor is used . the stomach to be converted into scientists have found that the energy of the fact that this dominion is a quality of mind, and that otherwise he is not dissimilar from those things which he operates.

It was desired to know how the know how how

France have recently busied themselves with the matter of showing man's rewith the

A GREAT PROGRAMME.

leader of peoples Japan must be in-

Suicide's Letter To Himself.

London, Feb. 16.-On the body of

La Grippe Mastered

La Grippe can and should be cured

use is Wade's Cold Cure Tablets (Lax-

ative). It provides just the aid re

quired to prevent the disease getting

hold of you. Just as effective for

curing colds and for headache and con-

stipation. In boxes, 25c. Sold only

at Wade's Drug Store. Money back if

His Offending Camera.

Belgrade, Feb. 16 .- A Montenegrin

priest who was shipwrecked in a small

Forgotten Aches.

Those who keep Smith's White Lini-

Half the time a man stays out late

active brain that did it.

not satisfactory.

lation to machinery.

A human motor—that's all that these scientists have left to us of our anatomy, if we except the more mysterious nake-up of the brain.

But they haven't stopped with that. Just like the mechanical engine and Just like the mechanical engine and show they are the second showing the same figure, weight, and having the same figure, weight, of the construction of Japan to adopt Mohammedanism as their national religion. If the anatomy of Kaenzlein and that the dock makes the blood shooting through the manifold arteries, vessels and veins to surply the dock makes the blood shooting through the manifold arteries, vessels and veins to surply the dock makes the blood shooting through the manifold arteries, vessels and veins to surply the dock muscular power land that the blood spin try lifting the load in the various spin try lifting the lies, vessels and veins to supply the of Duffey, the American hurdler and mony of the Asiatic world. To be-

sprinter, was studied in coming to this come a great and a really conquering ers," such as Eclipse, Gladiator, Holo- ed to convert itself to the faith of churches has been raised. caust and Flying Fox are large and Islam. As its reward, the fifty mil- The quarterly board of the "stayers" are generally small, some go over to Japan, dragging at their a call to become pastor of this cir-

use of the arms has recently been through Siam and Cochin-China, till unanimous call to the Rev. William J. and Kingston to become synod evanshown by experiments with dumb- it meets the Mohammedans of Yun- Clarke, pastor of the First Presby- gelist. Mr. Meikle has devoted much Then, the principle of the telephone bells. Contrary to common belief some | nan. This will cause a Mohammedan | terian church at London, Oht. thing more than mere strength must revival in India (where Britain may Bishop William C. Doane, Episco- work, for which his experience and be considered in lifting heavy dumb- be allowed to continue to administer pal bishop of Albany, N.Y., is known his natural talents both fit him well

This accounts for the fact that in

tion is made according to the total of negro: otherwise there will be a fight church, Winnipeg, of which Rev. T. W weight lifted, the short, muscular ath- to a finish. letes are generally favored. It is simply a demonstration of man's wonderful adaptation to mechanical principles when using himself as a hu-When a man thinks he is a great

man it's a sign he hasn't any children to prove to him that he is a fool. No inventor has yet found a way to make both ends meet

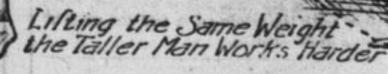
## Do These Symptons Fit Your Case P

Does everything turn dark when you Are you constantly suffering from Are you short of breath after going

Is your tongue coated and furred? boat off the Cattaro coast, was refused These symptoms give warning that shelter by the inhabitants because it your system needs a thorough cleans- was reported that he had committed ing all poisons must be flushed out. the sacrilege of photographing his The remedy is Dr. Hamilton's Pills. daughter and her husband after These famous pills loosen the bowels

and stop constipation; they act on the liver and kidneys, make them This ensures health and purity for

poor color, coated tongue and all diseases arising through fault of the stomach, kidneys or liver: try them, because he is afraid to go home Result prove the merits of Dr. an hour that isn't so late but looks How does this affect the human mo- Hamilton's Pills, 25c. per hox, or five like it to his wife.



For the Work-The Union of the Methodists of Japan. All but \$200 of the sum promised by By an identical method of reasoning spired by a fervent and hellicose reli- the English Congregational Union to it declared that the horses called "fly- gion, and for this purpose it is invit- clear off debts on the Canadian Nineteen hundred separate societies of powerfully constructed, while the lies of Chinese Mohammedans will castle Methodist church has extended eration, the combined membership be

times even bony, as Arabian and Sy- heels the rest of the Chinese empire. cuit for next conference year. The Mohammedan religion will pro- The congregation of the St. An. quested by the evangelistic committee How the lever theory enters into the gress northwards from Singapore, drew's church, Westmount, have sent a under the advice of Japan), and Per- as the "bullet bishop," because in and in which he has had remarkable

Suppose two men of different builds sia will straightway look for protee- writing or speaking he never uses success. He is a graduate of Queen's lift the same weight above their heads, tion and advice to Tokio. Later on a sentence over ten words in length. University in arts, and of Princeton They may rank equally as to strength, Mohammedan Africa will join in the St. James Methodist church, Mont. in theology. Recently he has been and yet the larger man must do more same grouping. If, then, the so-called real, has invited the Rev. William pastor of a congregation in Glace work against greater resistance, be- Christian nations of Europe and Am- Sparling, B.D., formerly assistant pas- Bay, C.B., and before that was is cause the leverage of his arm is long- erica leave this new Mohammedan tor, to return to them in June, 1909, charge of First church, Vancouver. world in peace, they will be allowed as pastor. Mr. Sparling is at present to maintain friendly and commercial in Winnipeg athletic contests, where the classificar relations with the yellow man and the The Sunday school of St. Luke's

> Kingston horsekeeper, named Mar Sailed for the Orient. shall, who swallowed campolic acid, Bishop John W. Hamilton, who was was found a letter addressed to him-expected to sail for Jamaica about the

> > one of the representatives of the board | died at 130 years old.

Lifting the Same Weight

NEWS OF CHURCHES of bishops of the Methodist Episcopal church at the approaching general

VARIOUS EVENTS IN THE board of foreign missions of his

Savary, formerly of Kingston, is rector, is supporting a real live misa Bowman, B.A., and she has lately

self, in which he said: "I am as first of January, was prevented from hamed of what I am doing, but I can starting, and in consequence is still in stand it no longer. I have been the United States, thus escaping the straight in all my dealings. My trout disaster by which he might otherwise bles I shall tell to no one; they may have been overtaken.

dist church, will also represent the church at the conferences at Shanghai, in commemoration of the centenary of missions in China. An important conference will con-

Evangelist—Has Fine Gifts the 7th of April next. This will be the seventh conference of the world's student Christian Federation, and will be the first international conference of any kind to be held in the far east. Christian students in eighteen different countries are affiliated in the fed ing 113,000 students and instructors. Rev. William Meikle has been re-

of the Presbyterian synod of Toronto

Kidneys Must Have Aid. Unlike most other diseases, kidney troubles seldom show any tendancy to cure themselves; their tendency is sionary entirely. She is Miss Hettie to grow steadily worse. Disorders of the kidneys lead to lumbago, gout rheumatism; heart troubles. Take Peck's Kidney and Liver Pills and be cured. In boxes, 25c. For sale only at Wade's Drug Store. Money back if not satisfactory.

A tortoise brought by Bishop Land to Lambeth when he became archbish-Bishop Earl Cranston, who will be op, outlived eight archbishops, and



Old St. David's Church, Radnor, Deleware County, Pa., about which an interesting history has been written by Henry Pleasants. It was erected prior to 1705 and amongst those who are buried in the old church yard are Anthony Wayne, and his ancestors and decendants. Judge William Moore, of Moore Hall; Henry Yates Carter tor? Suppose a muscle be considered boxes for 81, at all dealers in medi-Drake, the navigator.

YEAR 74. 1

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and Fur-Lin

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situate on Princess stree George Mills & Co., Fur ters. Plans and specifical for inspection. Tenders p.m., FRIDAY, Feb. 22 ARTHUR ELI Office, Cor. Queen and TAKE NO Between Season's we very small profits. The

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vous about resu

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HIS TITLE CE "Cold Storage" Ottawa, Feb. Js .- J.

been changed by a council to dairy an commissioner, in view importance which the vision of his work is Ruddick has given a attention to question for some years past,