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Stupendous Speed of Wireless Waves

The other which is the carrier of with the ether used by surgeons as an anæsthetic.

The latter is a liquid which can be touched, seen, and smelt; the other- woman to take life easily and not to well, just what the other is we do not worry. To do so is to ask the almost know yet, although in recent years impossible. But, at the same time, i science has discovered a great deal is the duty of every woman to save her about its marvellous properties.

earth, the sun, and all the planets pend upon it. float, was completely empty; that it To guard against a complete breakwas simply a vast tract of nothingness. down in health the blood must be kept But with the discovery that such rich, red and pure. No other medithings as heat and light are caused by cine does this so well as Dr. Williams' waves, came the realization that this Pink Pills. This medicine strengthens idea of space must be revised.

Millions of Minute Atoms.

Waves cannot take place in nothing: there must be a medium of some kind to be thrown into a state of agitation Space could not be empty; it must be tougher than the earth, yet having no more elastic than the finest steel, yet incapable of resisting the passage of solid bodies through it.

If the ether offered a hundredth part

everybody and in everything. The most solid mass of iron is really like a sponge in structure. Though it folks as if it were all one piece, actually it is composed of countless millions of minute atoms, separated from each other by tiny pore and channels. And every nook and chink is filled with ether, which occupies everything just as water occupies every part of a submerged sponge.

The most amazing thing about the ether is the rapidity with which waves burnt child dreads the fire" is as true move through it. Light coming to us to-day as it was in olden times, but from the sun, 92,000,000 miles away, takes only eight and a half minutes to accomplish its journey; Its waves move at the extraordinary speed of 186,000

To be able to carry waves at this speed the ether must be surprisingly elastic and infinitely more rigid than any metal! The more rigid any medium is, the greater is the rapidity with which waves or vibrations pass through it. The waves move through Variations-Liddane, Laydon, Layton. air at something less than 1,100 feet a Racial Origin-Irish. second; but through water they travel | Source-A given name. four times as quickly; whilst if they pass through iron or steel their speed stance such as putty will not pass don, Layton or Liddane seems to be the source might not at once he apparrigidity.

Passing Through Mountains.

finally they die out altogether. But this article. ether waves never come to an end.

same size when they reach America, or more upon the sound of the Irish name ad le Stile," etc. It is interesting to They were gathered about his bedside Wen Australia. They can pass through bricks and mortar, or even great moun- The given name from which this pretty much in the same manner as far as D-a-v-i, then fell back exhausted. close study of the market possibilities tains, as easily as through air.

Tree Planting on Prairie Farms.

The officers in charge of the Dominion tree-planting work report increased interest in this subject in all parts of the Prairie Provinces. The experiences of the past few years have impressed on prairie farmers the great benefits of having belts of trees across their farms and about their farm buildings. The injury that has been done to many farms by soil drifting has led to the discussion of tree planting as a remedy at farmers' meetings and in the press. The planting inspectors note that the ground is being better prepared to receive plantations, and that the plantations are being better cared for than in the past .-Annual Report, Director of Forestry,

Closer Check on Forest Fires.

It is always of considerable value to know how fires originate, as such a study makes possible the application of preventive measures. For a considerable number of years past it has been necessary to designate the cause of a large percentage of fires as "unknown." The perecentage of unknown fires for last season, however, shows a considerable reduction, which may be taken as an indication of material improvement in the attention given to study of the fires .- Annual Report, Director of Forestry, Ottawa,

Splinters.

When a splinter gets under the nail and will not readily come out, a cold water bandage around the top of the finger will in time loosen the splinter and prevent festering.

Day or Night.

Its inventor claims a new combination lock for automobile steering posts can be operated as well in total darkness as in bright light.

Watch your step. Many a man has slipped up on the truth only sure his good name.

WORRIED WOMEN NEED RICH BLOOD

Health Will Break Down.

It is useless to tell a hard working strength to meet any unusual demands. Our great-grandfathers believed that, It is a duty she owes herself and space, the vast domain in which the family, for her future health may de-

the nerves, restores the appetite and keeps every organ healthily toned up. Women cannot always rest when they trength by the occasional use of Dr. Williams' Pink Pills. Among those who have found benefit from love, N.S., who says: "My system was very much run down, and my blood poor and watery. I suffered a great deal from headaches and dizziness; gone, and my blood reemed in a better condition than before. For this

through any dealer in medicine or by for \$2.50 from The Dr. Williams' Medicine Co., Brockville, Ont.

reason I recommend Dr. Williams'

One Cause of Forest Fires.

Practical experience is what counts in all walks of life and nothing is more true with regard to fire prevention. "A the average citizen has not yet been burnt and it is to make him realize his responsibility not only to himself, but to his family, his neighbor, and the "load" is ruinous; when a ship pitches There is no other tonal effect in the should be directed.—Deputy Fire Marshal, G. F. Lewis, Ontario.

Latent Power.

power is regulred for the many meradiators, the myriad overhead lamps, perfect our weakness. If the Blood is Not Kept Pure the cash tubes, the elevator that saves you so many steps. It is only when you go down to the third basement and see the power plant that you realize low great is the mechanical energy that is being expended.

> All is silent in the basement; there another there has switched on the ights. The engines respond to the call for more power. Another day you

finely adjusted power plant it is! the sky and every gleam of sunlight affect the lighting system, which is so adjusted as to respond to every need; the presence of an overseer is scarcely necessary. If we admire the genius that has devised the wonderful plant, how much more should we admire God,

far more wonderful! Many persons tell us to pray for power, but, though prayer is good. there is another duty to perform in turn power into an engine that has no and the propellor comes above the whole ship trembles. God does not

Surnames and Their Origin

LEYDON

Here is a family name which, in any waves at all owing to its lack of typically English. But it is not. It is ent.

You'd never be mistaken about the Gaelic form of the name, however. It tion is "O'Liodhain." From this form have The old records are literally cram- An old Scotsman, David Gordon, who impossible. Eight Canadian geologicts. come the foregoing varied assortments | med with such names as "Peter atte | was seriously ill, had been wheedled most of them representing Canadian of Anglicized forms, all of them based Stile," "Cecilia ad Style," "Reginald by his relatives into making a will. universities, will attend the congress. than upon its spelling.

clan name is derived is "Liodhan," the modern French "a la" in contrast "D, Uncle David, D," urged a nephew. there for Canadian minerals. In view parents of religious inclination as a contracted form of "a," sometimes ready, ye avaricious wretch!" suitable name for their sons.

ritory was in Tipperary.

ST 'LES

Variation-Stiles. Racial Origin-English. Source-A locality.

Here is a family name of very

factory production, together with the fine crops of trees to keep our saw- held in Brussels, Belgium, in August True, the form Layton does often cheapness of hardware, have made the mills, our wagon factories, our furnicome from an English source, but it's farm gate and the slip-rail fence more ture factories and our paper mills runnot that Layton we are speaking of in economical and handy than the old- ning at full force forever. Let us all ing mining countries of the world will fashioned "style" or "stile," as it was take part in protecting our valuable be represented, is held triennially. The variously spelled. So one's mind does not jump so quickly to this explana-

"atte," "ate," "a la," "ad le" and so The chieftain of this name who on. It is interesting also to note that

without regard for gender.

waste power by giving it to the man who has no hard task. "As thy days. If you visit one of the great depart- so shall they strength be." Let us ment stores you may be unaware what then rejoice if our task is hard, and chanical contrivances round you-the our strength, for God's strength makes

DURING HOT WEATHER

than a score of boilers are constantly hot summer months are to small child- the precision of the instrument emreceiving coal; automatic stokers feed ren. Cholera infantum, diarrhoea, dy- ployed for the measurement. While them just enough to maintain the need- sentry, colic and stomach troubles are the precision of a measuring instrued pressures. The steam from the rife at this time and often a precious ment can be verified by comparing its boilers is converted into electrical little life is lost after only a few hours indications with those of one known energy. Most of the motors are idle illness. The mother who keeps Baby's to be accurate, a little consideration now, but if you were to stay there Own Tablets in the house feels safe. shows that ultimately, either directly chinist. brough a winter afternoon you might The occasional use of the Tablets pre- or indirectly, it must be compared with be astonished to see one after another, vents stomach and bowel troubles, or a unit or standard which is accepted ble that I often had to lay off from apparently of its own violition, take if the trouble comes suddenly—as it by common consent—as illustrations, work for two or three days at a time up its task. No human hand has generally does—the Tablets will bring the three fundamental standards, the I had awful nagging pains across the Order. ouched them; but something has hap- baby safely through. They are sold yard, the pound, and the second. ened. Darkness has settled down by medicine dealers or by mail at 25 first on the lower floors and then on cents a box from the Dr. Williams'

> The Orchestra's "Step-Child. or she is probably apt to follow the string section of the orchestra more

stringed instruments the violins hold

riolas and double-bass, which go to

is the least known. Many people think that the viola is very like the 'cello. The viola is the alto violin. Broadly speaking, every chilling gust strings are tuned a half octave below of wind that blows against the building the violin, and a whole octave above sends a shiver through the heating the 'cello. The viola strings are the a few inches longer than the ordinary

> The viola has been termed the "stepchild" of the orchestra's string section. Formerly it was little used. It is said that in earlier times about the only man who played a viola was the man who was so poor a violinist that he couldn't qualify even for the second violins. To-day violas are so important that they are entrusted with parts orchestra that can be mistaken for the is so seldom heard in solo passages, makes its introduction all the more

Burned Forests Pay No Wages.

effective.

Living forests provide us with wood material of all kinds for our homes and industries, but burned forests provide no lumber, no work for the workingman, no business for the merchant and Mines, has been named by the Hon. is increased fifteen-fold. A soft sub- form you may consider, Leydon, Lay- to-day, particularly the city dweller, no freight for the railway or steam- Charles Stewart, Minister of Mines ship.. Most of the land on which our and Minister of the Interior, as dele-Canadian forests now stand is not fit gate to represent Canada at the Inter-In most places modern methods of for agriculture, but it is fit to grow national Geological Congress, to be

---Not to be Hurried.

note that this prefix "at the," used watching him sign it. He struggled as land, his intention being to make a

based upon the Irish word for "litany," with our more modern way "of the" Dee!" ejaculated the old Scot, with of the impending enactment of high and, therefore, likely to appeal to took many forms, sometimes a simple feeble indignation. "I'll dee when I'm tariff legislation in the United States

founded the clan came of the same "le" and "la" appear to have been for disease germs to travel to earth that new markets be cultivated. This line as the O'Connors. The clan ter- used pretty much as a matter of choice from other planets on the tails of subject will be fully convasced with comets.

Measuring Instruments Must be Standardized.

Most industrial processes, surveying, trade and other activities of modern ments of one kind or another. The steel maker must be able to measure temperatures and other quantities connected with his work; the surveyor, distances, angles and time; the trader, weights and volumes and the scientist still further properties of materials.

It is obvious that the accuracy of Every mother knows how fatal the any measured quantity depends upon

ernment to undertake the work of cer- cause of the severe pains in the pit of the road to happiness. directly employed in trade), and either came so dizzy at times that I couldn't bird. ference standards by manufacturers, ting weaker every day.

mass, volume and length were the only day now and am just feeling good and ones in which any accuracy or agree- getting stronger all the time. Tanlac ment was considered necessary, but is certainly a wonderful medicine." ander modern conditions it has been i found necessary to establish addition-

ables different countries in the world ferent substances. same as violin strings, only thicker to be supplied with copies of the standards agreed upon by an International Committee, representing nearly every civilized country. Single nations are provided for by such national institutions as the National Physical Laboratory, England, and the Bureau of Standards of the United States, where many different insturments are veri-

fied, and much research is undertaken While Canada has not, as yet, a large central organization corresponding to these laboratories, much of the work undertaken by them is done at the Government Laboratories at Otof special prominence, and even solos, tawa. In the Survey Laboratories of the Department of the Interior a large volume and variety of instruments are tested annually. The measuring instruments verified at this laboratory include chronometers and watches, measures of length, surveying instruments, barometers and pressure gauges, thermometers, telescopes, etc.

Minard's Liniment for sale everywhere

To Cultivate Markets for Canada's Minerals.

Dr. C. Camsell, Deputy Minister of

last session, however, was that held in Canada in 1913, the war having made subsequent sessions until the present tending to restrict the market for our minerals in that country, it is of great Scientists state that it is possible importance to the mineral industry the Imperial Mineral Resources Bureau, who have already shown a keen interest in the development of a market for Canadian products. Among other minerals to be considered in this regard are graphite, tar sands, feld spar and bentonite. The last-mentioned is a clay used in the manufacture of textiles, very high-grade deposits of which have recently been discovered

in Alberta and British Columbia. The terms of peace have divected Germany of some of her best mineral territory, notably in Alsace-Lorraine and Poland, and there is a possibility of developing a market for certain of our minerals in that country. It is understood that German interests have atready made tentative enquiries respecting the possibility of obtaining fron ore from Newfoundland. While in Germany Dr. Camsell also hopes to investigate methods perfected there for the briquetting of coal, a subject which is of vital importance to the Prairie Provinces. He will also give special attention to phosphates and other mineral fertilizers.

Pat Won!

An Englishman, a Scotsman, and an Irishman were arguing as to who had had certain things the longest.

The Englishman said, "I've had this horse ever since it was a colt." The Scotsman said. "I've had this cow ever since it was a calf."

"Well, that's nothing." exclaimed the Irishman. "I've had this cart ever since it was a wheelbarrow."

Mother (to the Vicar): "Oh, please sir, I was agoin' to ask you, could anything be done to change pore little Lloyd Ceorge's name 'ere? The child's 'ad to suffer summat cruel. 'E can't do n th'n' right since 'is father changed 'is views about the Prime Minister!"

HAMILTON MAN **IS BACK ON JOB**

Chas. Davis Was Often Forced to Lay Off From Work Days at a Time Before He Canada York Be Began Taking Tanlac-Stomach Trouble Now Entirely Gone.

"Tanlac did me so much good that I girl" should like to tell everybody about it," said Charles H. Davis, 24 Crosthwaite Ave., Hamilton, Ont., a popular ma-

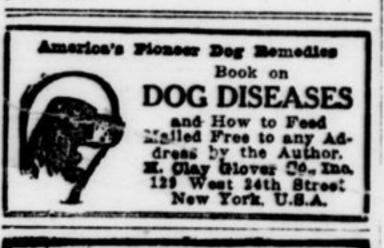
small of my back and I often went In practice it is usual for the Gov- for a whole day without eating, betifying to the precision of measuring in- my stomach after every meal. I had struments (especially when these are frequent spells of weakness and beto test all appliances before they can see where I was going and would be put to use, or to test a proportion bump into people in the street. I just which can be used as secondary or re- felt tired out all the time and was get-

"But Tanlac has rid me of these Formerly instruments for measuring troubles and I'm right on the job every Tanlac is sold by all good druggists

The International Bureau of Weights | The soot of wood has been minutely and Measures, Slevres, France, en- analyzed and found to contain 15 dif-

Minard's Liniment Relieves Neuralgis

Canada's forest resources are essentially of coniferous nature, the hardwoods as a whole forming about 3 per cent, of the total quantity of lumber



COARSE SALT LANDSALT Bulk Carlots TORONTO SALT WORKS

C. J. CLIFF . TORONTO



and Have a Clear Skin

Bathe with the Soap and hot water on rising and retiring, using plenty of Soap. If any signs of pimples, redness or roughness are present smear with the Ointment and bathing. Always include the Cuticura Talcum in your toilet preparations Soap 25c. Ointment 25 and 50c. Taleum 25c. Sold Lymans, Limited, 344 St. Paul St., W., Montreal.
Cuticura Soap shaves without mug.

Classified Advertis WE HAVE A CASH PURCHAND tario. Price must be attractive full information to Wilson Pul Co., Ltd., 73 Adelaide St. W., AND FEELS FINE

His cousin-"I hope Richard's life hasn't been blighted by that ornel His sister - "Don't worry, dear, Dicky is too much infatuated with him-

self to be injured by any external love

No Cause for Worry.

MONEY ORDERS. Send a Dominion Express Money They are payable everywhere.

The path of duty generally parallels

low has a larger mouth than any other



YARMOUTH, N.S. The Original and Only Genuine. Beware of Imitations sold on the Merits of MINARD'S LINIMENT

Relieved by Taking Lydia E. Pinkham's Vegetable Compound

Cobourg, Ontario .- "For many years -Mrs. Ellen Flatters, Box 761, Cobourg, Ontario.

Any woman in this condition should take the Vegetable Compound, for it has helped other women and so it

should help you, harmful drugs, has been the standard medicine for female ills, and has re women who have been troubled with such ailments as displacements, inflammation, ulceration, irregularities,

Lydia E. Pinkham's Private Text-Book upon "Atlments Peculiar to Women" will be sent you free upon request. Write to The Lydia E Pinkham Medicine Co., Lynn, Mass.

ASPIRIN

UNLESS you see the name "Bayer" on tablets, you are not getting Aspirin at all



Accept only an "unbroken package" of "Bayer Tablets of Aspirin," which contains directions and dose worked out by physicians during 22 years and proved safe by millions for

> Colds Headache Toothache Earache

Neuralgia Lumbago

Rheumatism Neuritis Pain, Pain

Handy "Bayer" boxes of 12 tablets -- Also bottles of 24 and 193 -- Druggists. Aspirin is the trade mark (registered in Canada) of Bayer Manufacture of Monomanufacture, to assist the public against inditations, the Tawests of Mayer Company will be stamped with their general trade mark, the Bayer Acoss?

