A Wonderful

ison's Latest Great

Visible. New York dispatch says: Thomas alson is again to give to the another discovery, as wonderful

y means of the fluoroscope Mr. son but to practical use the diserry of the so-called X-rays by 1. Roentgen. His latest discovery further development on this same

Edison realizing the limitations of the fluoroscope, its power, when applied to the human body—for in as surgical possibilities lies its greatest benefit to mankind—being con-

constructed a practical instrument for

with the X-rays."
Tungstate of calcium not being suffie interior of the human body as to nder its most delicate tissues vise—In other words, to make it transpent—Mr. Edison set about to find crystal that would possess the re-

THE MYSTERIOUS CRYSTAL. He has discovered one. Its name he not reveal, saying that he experimenting with it, and de-to exhaust its possibilities be-stals Mr. Edison can now disclose

sensitive are these crystals that man with his eyes bandaged may iscern objects, which suggests the

"For the last six months I have out light when subjected to the action of that mysterious force called provisionally the X-ray of Roentgen.

"I saw that with the fluoroscope, as it is today, only the bones of the body and the heart can be seen, and that the internal organs are to be rendered visible it will be essential to increase the sensitiveriess of the crystals used in the fluoroscope as well as the variation in the quality of the

So you began experimenting with chemicals?" asked the re-

COLLECTED CHEMICALS. "I first purchased in this country and Europe all the chemicals known and sold in the trade which I did not already possess. These were all tried in the fluoroscope, Only one was found equal in sensitiveness to sungstate of calcium. Since then my chemists have been making chemical combinations not procurable elsewhere."
"Your chemists must produce a large

number of new combinations," ven-"Their average is 30 new chemical hog cholera.

aubstances a day. Every one of these and its subjected to the X-ray and its perth has the chemical hog cholera. fluorescing power, if any, is meas-

"And do any of them compare favorably in fluorescing power with tungstate of calcium?"
"I have found one chemical which any heretofore known. But I shall keep on trying until little house is

keep on trying until little hope is left of finding anything better." When do you suppose the chances of such discovery will be exhausted?"

"Practically never. For when you remember how many chemicals there are, and men calculate the number of possible combinations, you will find ple of India.

The United States Select and Passible and Passible Practically never will be exhausted?"

The United States Select and Passible and Passible Practically never will be exhausted?"

The United States Select and Passible Passible Practically never will be exhausted?"

The United States Select and Passible possible combinations, you will find that they run up into hundreds of

possibilities of this discovery, Edison, in their relation to surgery, seem immense."
"Yes, should I succeed in finding

res, should I succeed in finding just what I am after there is no doubt that the fluoroscope will become an instrument of great value to the surgeon, for by it he will be able to make diagnosis of the internal BECQUEREL'S STRANGE DIS-COVERY.

There is another discovery that may have an important bearing on Mr. Edison's experiments and that suggests remarkable possibilities it the realm of light manipulation. It is that of the French chemist Becquerel that certain crystals of the salts of metal unanium, when subjected to action of sunlight and then taken into a dark room give off a new and itherto unknown ray which possesses. e same property as the X-ray-that penetrating opaque substances.

I am very much interested in Becquerel's discovery," said Mr. Edison. "The rays from these salts of uranium penetrate opaque objects and give photographic impressions. Other ex-perimenters have discovered that other crystals, among which may be men-tioned white sugar, have the same

Strange and curious results that may materially add to our stock of knowledge of the unseen world about us may develop from our experiments with these chemical crystals which we are now subjecting to the various forces of nature. I am very hopeful

constibution and sluggish liver or piles.

results of these experiments." "Does not this discovery of Becquerel's," asked the reporter, "open up an entirely new field for scientific re-

"That science is now entering upon new and wonderful field fraught with great possibilities," replied Mr. Edison, "is illustrated by the knowledge that through the action of the light streaming in upon our tables and Discovery.

Anything Desired Made

In the streaming in upon our tables and pouring over our sugar thereon some wonderful change is brought about, and that from this sugar an unknown ray radiates out into space, and through our bodies, perhaps, producting effects in them of which we have no idea.

A Residence Eurned-Prospective High School Entertainment-A Midnight Burglary.

Dutton, Feb. 12.-Miss Royal, Sarnia, spent Sunday at her parents', in Dutton. Rev. T. B. Leith, of Michigan, is visiting Rev. D. Kelso.

Fire destroyed the residence of Mrs. S. Holt, who lives near Iona, on Wednesday. Before assistance could be

procured it was too late to save but little of the contents. A defective stove pipe was the cause of the fire. the dim outlines of such solid the dim outlines of such solid day schools and B. Y. P. U. of the day schools and B. Y. P. U. of the country of Eligin will be held at Sparta. f possible, some substance of more county of Eigin will be held at Sparta constitive quality than the tungstate of will take part in the programme are will take part in the programme are

a practical instrument for is to be held on Friday, Feb. 19, bids crystals in connection fair to be a grand success. They have succeeded in securing some excellent talent from St. Thomas, which, with rungstate of calcium not being sum-intly sensitive to transform the range light discovered by Roentgen to a light that would so illuminate to a light that would so illuminate e interior of the human body as to

Murdoch, son of John Matheson, of Crinan, escaped what might have been a very serious accident on Monday. He, with his father, was drawing logs, when the sleigh ran against a decayed tree, a portion of which fell off and he struck him on the shoulder, rendering him unconscious for a time. No bones were broken, and he will be able to attend his work shortly.

While Peter Stalker, of Crinan, was While Peter Stalker, of Crinan, was at work in the woods he received a bad squeeze by being caught between a log on the sleigh and a standing tree. A daring midnight robbery took place at the home of Mr. Robert McKay, stues that have hitherto been seen During the day one of his sons, Danly in the dissecting room and on iel, collected a sum of money for only in the dissecting room and on the operating table. It is probable threshing the past season. Early at the operating table. It is probable that when he perfects his new discovery the slightest derangement of the system will be revealed to the dector's even.

slight noise, but paid not attention to it. Returning, Daniel went in his scern objects, which suggests the room, which faces the old house, counted the money collected, and put the world around them may become \$30 in his trousers pocket, and the remainder in his trunk. In the morn-In speaking of his work, Mr. Ediing the money was gone. Not a sound
was heard during the night, although a dog was in the house all night, and McKay is of the opinion that from his been experimenting for the produc-tion of chemical crystals which should have the peculiar property of giving caloroform was used. Tracks of two Chloroform was used. Tracks of two men were noticed around the house,

rton, the Sunday following. A meeting of the congregation will be held in the church on Thursday evening, Feb. 25, for moderating in a call to a pas-

Rev. J. Philp, B.D., of Ridgetown will lecture in Dutton on Monday eve ng, Feb. 14, on "Picnicking in Pales

Rev. T. L. McCutcheon will preach n Tyrconnell, Wallacetown and Dut-

ton next Sunday.

Farmers a short distance south of Hamilton are losing many of their

hogs from a disease which resembles Mr. James Grieve, ex-M. P. for North Perth, has been appointed to a sponsible position in connection with the Dominion Immigration Depart-

The losses of the fire insurance companies in Canada last year were near ly \$500,000 less than in 1895, yet they are stiffening the rates and making conditions more exacting on the

municipal corporations. The United States Senate has pass

A joint stock company has been formed at St. Joachim for the purpose of raising flax and manufacturing linseed oil. Each stockholder agree to plant one acre of flax a year, w will produce 25 bushels of flax and 30 gallons of oil. There are 40 stockholders in the company.

A CASE OF DIABETES.

No Help From Medical Men - Suffered for Many Years Cured by Dodd's Kidney Pills.

North Bruce, Feb. 15.-An old and vell-known settler in this township, named Thos. Brooks, who lived on lots and 8 in the 14th concession, is reoicing with his neighbors over his recent recovery, and he said: "I was cured by using 24 boxes of Dodd's Kidney Pills and as nothing else ever helped me I say they saved my life."

"I had tried all the doctors of this locality and was treated for Diabetes, hoping and suffering for years." "From reading of cures I determined to use Dodd's Kidney Pills, and I must say that after using the first box I would have considered them reasonable

at \$10 a box.' An advertisement in the London Times asks for information of a man who, on a voyage from Leith to London, fell overboard. The puzzle is what quarter the advertiser expected the information to come from.

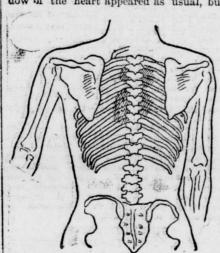
Can Be Detected Without the Aid of an M. D.

New and wonderful uses of the X rays in medicine and surgery continue to be made. One of the latest of these is in heart disease. Dr. Campbell Thompson, of London, reports that he has been able to see very distinctly an aneurism of the aorta of the heart by means of the rays. An aneurism is a pulsating tumor, caused by the enlargement of a vein, and is a very serious and common form of heart diseass. The accompanying sketch, reproduced from Dr. Thompson's photograph, shows how clearly the aneurism

This experiment is considered to be of great importance by physicians. Hitherto in inquiring into the condition of the heart. A certain kind of murmur was one of the principal symptoms indicating an aneurism, but while it was sometimes calcium used in the fluoroscope.

"It was," says he, "the action of the X-rays on crystals of platinocyanide of barium which caused Roentgen to make the original discovery. Afterwards I discovered that tundstate of calcium was more powerful and I was more powerful and I constructed a protected instrument for calcium was more powerful and I constructed a protected instrument for constructed a protected and I constructed unmistakable it was often of a character was in a dangerously diseased condition. Now, thanks to the X rays, this fearful state of suspense may be ended. If the patient learns that his heart is sound he is happy, but if he learns that he has an aneurism, he can take the precautions best calculated to prolong life with such a disease. The history of the case described by Dr. Thompson shows what the former difficulties were. A man, aged forty years, was first seen in June. by Dr. A. Wheeler. He then complained of pain in the left side and also occasionally in the back, which he had had since March. Shortly afterward he was seen by Dr. Sidney Coupland, who agreed with Dr. Wheeler in suspecting the possibility of an aneurism. At this time the physical signs consisted of some impairment of resonance in the interscapular region, and a blowing, systolic murmur was to be heard all over this region, but with its point of maximum intensity to the right of the vertebral column. tient was informed of the probability of the presence of a deep-seated aneurism, but, wishing for further corroboration. he consulted another physician, who did not think the evidence sufficient to warrant such a diagnosis being made.

The case was in this doubtful position when Dr. Coupland sent him to Dr. Thompson, and together they examined was noticed that the heart was a little | gle to get along at first-" enlarged, and just above the point of junction of the left border with the ster- interrupted stoutly, rubbing her cheek num a faint, indefinite shadow was seen, from which, however, nothing decided could be made out. On looking at the back they were more successful. The shadow of the heart appeared as usual, but



seen on both sides of the spinal column, and about on a level with the fourth dorsal vertebra. On the right side the border was convex, and could be distinctly seen to pulsate, while its intensity was about equal to that of the heart, but on the whole a little lighter On the left side the shadow was only faint, and its margins could not so definitely be made out. This, then, was an important piece of evidence, which, added to the physical signs already obtained removed the case from a doubtful one to one the nature of which is practically certain, for it can scarcely be doubted that it is a case of aneurism of the aorta, the tumor probably springing from the descending part of

"When the focus tube is placed behind a person so that the rays pass through the thorax, a striking effect is produced. The bones are very clearly depicted, while the heart is seen as a definite shadow in contradistinction to the light area around. The shadow of the heart is not uniform in intensity, being lighter of the margins than toward the center, but the outline can be clearly seen and its pulsating movements detected. The lower limit of the thorax is bounded by a dark shadow which corresponds to the diaphragm with the liver beneath it, and the ascent and descent of the diaphragm with each respiration can be clearly seen. On taking a deep inspiration, so that the diaphragm descends to its full extent, the lower margin of the heart can be differthe latter causing an interval between the two organs, which at once shows up as a bright line. This is in itself an im-

portant point for clinical purposes, as

Describing his experiment, Dr. Thomp-

map out this line, owing to the one merging directly into that of the other. From a front view, then, the whole outline of the heart can be made out, and after a little experience anything abnor mal in shape or size can readily be de tected. The back view is, if anything, more interesting than the front, since i is more difficult to investigate by the usual means. The ribs and vertebrae show up as they do in front, but of the heart itself much less is seen. One reason for this is that part of the heart is situated directly in front of the spinal column and so is necessarily obscured from view, and another reason is on account of the oblique position which the heart takes up in the thorax, the base being directed slightly upward and backward, while the apex points downward and forward. On the left of the spine a definit shadow is seen with a well-marked external border; this corresponds to the left ventricle. To the right of the middle line a smaller shadow of less intensity appears which chiefly corresponds to the right auricle. Any peculiarity of the heart is

seen with distinctness.' Appetite is thin ice. Beware. "Excels any Piano I have ever used."

Zirrent errent errent errent errent errent errent errent

MADAME ALBANI

Frankly Tells of Her Experience With the Heintzman &, Co., Pianos,

"I write to tell you what pleasure and satisfaction have come to me in the use of your Concert Grand Pianos in our Canadian tour of this season, as also that of a year ago. An artist must necessarily rest in no small degree on the instrument used in her public entertainments, and only completest success will come in having an instrument that responds instantly to every demand made upon it.

"This is where satisfaction has come in the use of your Pianofortes. The tone is delightful—the elasticity of action marvelous-every note ringing out in clear, pearly and limpid quality. "I must also thank you for the beautiful Upright Piano which you sent to my parlor during my stay in

Toronto. I am informed that this Piano contains the latest patent by Mr. Heintzman, namely the Agraffe Bridge. I can say that with this improvement the Heintzman & Co. Upright Pianos excel any Piano I have ever used." You buy a Piano to last a lifetime. You can only get a Piano that will last a lifetime by buying the best. Madame Albani and every member of her company, Ellen Beach Yaw and every member of her company, R. Wat-

experience, with one voice indorse Albani's words, "The Heintzman & Co. Piano excels any Piano I have

kin-Mills, England's most eminent artist, and the great artists everywhere, who can speak with knowledge and

HEINTZMAN & 236 Dundas Street, London, Ont.

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The Lesson of a Mother.

"You see how it is, my dear," he said, taking her soft hand which had never done any very hard work, and patting it reassuringly, "I'm poor-only a thousand him by the X rays. From the front it a year, dear-and we shall have a strug-"I don't mind that in the least," she

> softly against his hand. "And," he pursued, having graciously allowed her interruption, "we shall have nary indulgence for 50 francs she let to come down to strict economy. But if | you off very cheap," you only manage as my mother does, we shall pull through nicely."

"How does your mother manage, dear," she asked smiling, but not very happy at the notion of the mother-in-lacropping out already.

I don't know," replied the lover radiantly, "but she always manages to have everything neat and cheerful, and something delicious to eat-and she does it all herself, you know! So we always get along beautifully, and make both ends meet, and father and I have plenty of spending money. You see when a woman is hiring her laundry work done, and her gown and bonnets, and her serubbing income and take his breath away."

The young woman looked for a moment as if her breath were also inclined her dismay, and being one of the stouthearted of the earth, she determined to this visit, one fine morning, John re- was dying. Both in body and package containing his engagement ring mpanied by the following letter:-"I have learned how your mother vitality.

know. I find she is a wife, a mother a housekeeper, a business manager, a hired girl, a laundress, a seamstress, a mender and patcher, a dairymaid, a cook, a nurse, a kitchen gardener, and a general slave for a family of five. She works from five in the morning until ten at have mentioned have practically disnight, and I almost wept when I kissed appeared. her hand-it was so hard and wrinkled buckets of water, and great armfuls of wood, often splitting the latter, I asked her why John didn't do such things for her. 'Why-John'-she said in a trembland when he comes home is very tired; or else-or else-he goes down town.' Now I have become imbued with the conviction that I do not care to be so good a 'manager' as your mother. If the wife

must do all sorts of drudgery, so must the husband; so if she must cook he and more are daily becoming acquaintmust carry the wood; if she must scrub, ed with its virtues. he must carry the water; if she make butter, he must milk the cows. You have allowed your mother to do everything? and all you have to say for her is that she is an 'excellent manager.' I do not entiated from the liver, the descent of care for such a reputation, unless my husband earns the name also. Judging from your lack of consideration for your mother. I am quite sure you are not the man I thought you were, or one whom I by ordinary methods it is very difficult to would care to marry. 'As the son is, the husband is' is a safe and happy rule to So the letter closed, and John pondered

-and is pondering yet. -Selected.

He Reached His Limit. The small boy, little Victor, has reached the age when enforced prayers are especial abominations, although taken homeopathically he is willing to indorse prayer somewhat. But the protracted supplications for blessings upon his relatives unto the third and fourth generation do not strike him with great favor He had got so far as "God bless papa and mamma and grandmamma," and seemed inclined to stick at that station. "And sister Jennie," his father

prompted. "An' God b'ess Sissie Dennie." "And brother Frank," the prompter suggested

"An' God b'ess Buzzy Fackey,' sleepily. "And Auntic Jo?" "Yes. ; God b'ess Aunty Jo. but p'ease God don't b'ess anybody else. I'se too

Joy is a jamel of the purest water.

A CLERICAL RETORT. An entertaining story is told in Loneakfasting with Gladstone lately. Mr. Gladstone said to him: "Mr. Healy, I went into a church in Rome nce, and was offered a plenary indulgonce for 50 francs; on what principle loes your church grant such things?" Mr. Healy replied, "Well, Mr. Glad-stone, I don't want to go into theology with you, but all I can say is that if my church offered you a ple-

eakness, Debility and Prostration-A Way Out of the Difficulty.

"Overwork and mental strain, caused by business trouble, last spring, brought on physical and nervous prostration. My nerves were completely unstrung, I suffered very much with giddiness, and I felt as if I was con-stantly about to fall forward. I had gown and bonnets, and her scrubbing and stove-blacking done, and all that sort of thing—why, it just walks into a man's careful I would have congestion of the brain. Sleeplessness also gave me great discomfort. Some nights I could not sleep at all, and what little sleep I for a vacation; but she wisely concealed did get on other nights was feverish, and disturbed by unpleasant dreams. I would wake up with a start, and hearted of the earth, she determined to trembling all over, suffering as wellearn a few things of John's mother, so from a sinking feeling which gave me went to her house for a long visit the great distress. My breathing was also very next day. Upon the termination of affected, and I felt sometimes as if ceived to his blank amazement, a little | was in such a weak state that I found it difficult to attend to business. I seemed, in fact. to have lost all

"The first material relief I obtained 'manages' and I am going to explain it was when I commenced taking Mil-to you since you have confessed you don't burn's Heart and Nerve Pills, which I got at Mr. G. E. Gibbard's drug store, corner King and John streets. Toronto. They helped me at once. I have taken four boxes, and feel like a new man now. My nerves are strong. I sleep well, and all the distressing, debilitating troubles which I

"In addition to this I have gained and corded and unkissed! When I saw are greatly in physical health and her polishing the stoves, carrying big strength. I know of no remedy at all health approaching Milburn's Heart and Nerve Pills in effectiveness for dis eases of the heart and nerves.' Above is title statement of Mr Thomas Sintzel, wholesale clothing ing bewildered way—'he works in the office from nine until four, you know, west, Toronto. Mr. Sintzel has been five years in this business here, and

employs about 20 hands the year round. As will be seen above he ascribes his cure wholly to Milburn's Heart and Nerve Pills. Many others of our citizens owe their health to this great medicine Mr. Sintzel formerly resided in Burk's Falls, in Muskoka district, and is

well known both there and in Toronto. Laxa Liver Pills cure constipation One pill a day for 30 days, taken every night, will conquer the most obstinate

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-yet valuable as a breakfast health food, with the true, sweet flavor of the natural wheat berry. A perfect substitute for Oatmeal -yet without its heating properties - Molina Rolled Wheat. Of your grocer.

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