

THE LARGEST SPECTROSCOPE.

Analysts to be Made of What is Burning in the Sun—Great Results are Coming. Madgeburg, Germany, is to have the largest spectroscope ever built. It is to be the property of Dr. Hans Hauswaldt, a rich scientist of that place, who left an order when he was in Pittsburgh a year or so ago. Prof. John A. Brushhear, the well-known maker of scientific instruments, of Alleghany, Penn., is the maker of this gigantic piece of work. There are only two other spectroscopes in the world which come anywhere near in size to this one. Of these two, one is at the Royal University, Dublin, and the other is at the McGill University of Canada.

This powerful concave instrument is twenty-one feet long and it will require a room from twenty-five to thirty feet square in which to operate it. The grating on this big spectroscope has an aperture of six inches in diameter, and is ruled with 110,000 lines. These lines have been drawn so accurately that there is not between any one of them a difference of three millionths of an inch.

An ordinary spectroscope shows from 200 to 300 lines of the spectrum of iron, while this one is so strong that it shows at least

2,000 LINES

to the same spectrum. It was formerly thought to be a wonderful achievement if a spectroscope showed the sodium lines double, but the instrument made by Prof. Brushhear, with the sun at a low meridian, shows not less than fifteen lines.

"The new spectroscope," said Prof. Brushhear, "has its highest powers in photography. The spectrum of the sun has been photographed to a length of sixty feet, literally crowded with lines from one end to the other. It is so arranged that no matter what part of the spectrum it is desired to photograph, the photographic plate is always in focus for every part of the spectrum."

"The instrument also is valuable for making comparisons with anything that may be burning in the sun. If we wanted to determine if the metal calcium is in a state of gas in the light which is coming from the sun we only have to turn the sunlight into this slit in the spectroscope and photograph on our plate the centre of the sun. A bar is then placed over this part of the plate which has received the impression of the solar spectrum, and we turn on the electric light in which has been placed a small piece of pure calcium. In a short time a developed plate is obtained which shows whether or not there is any calcium light in the sun's rays then shining."

Dr. Hauswaldt intends to order several other scientific instruments from Prof. Brushhear for his laboratory in Madgeburg, which the doctor intends to make the finest and most complete in all Europe. He is very rich and can well afford to do so.

A HUNGRY ENTHUSIAST.

Edwin (as they reached the summit of the mountain after a long climb) Ah! we are here at last. What a magnificent view! At such a time and place I feel strange sensations—an indefinable longing, a soul craving, as it were, which— Angelina—My dear Edwin what you want is a sandwich.

NOTHING HUNTS OUT CORNS

Like tight boots. A sure, certain and painless remedy is found in Putnam's Corn Extractor, which removes the worst corns in twenty-four hours.

Mudge—"Oh, yes, we had a real lively time, Simmons and I. It cost us nearly \$50." Wickwire—"Yes, I saw Simmons this morning, and he told me he spent \$45."

CURED OF SCIATICA.

Left Hip Affected—Suspected Kidney Trouble—Relieved and Perfectly Cured by Dodd's Kidney Pills.

Toronto Junction, March 22 (Special)—Mr. H. Hayer, is not a difficult man to find as everybody here knows that he is foreman at No. 1 Fire Hall. He was the picture of health when called upon by your correspondent and told his story thus—

"In April 1896 I suffered from a severe attack of Sciatica affecting my left hip and the leg to the tip of the toes. I suspected it came from some form of kidney trouble and as they had been recommended I procured a box of Dodd's Kidney Pills."

"At the end of the fourth day I was entirely relieved but desiring a permanent cure I continued to use that and another box and am now perfectly cured and as well as ever in my life. A brother of mine living at Pine Orchard has been cured by Dodd's Kidney Pills."

"Sometimes," said Uncle Eben, "de man dat pays hundr'ds ob dollars foh flags an' decorations ain' ez much ob er patrick ez de one dat goes quietly long an' phys' is taxes an' serves on de jury wifout kickin'."

Any Woman No. 1 Compound. If she is content to endure her pains and weakness without attempting to get relief, can get along without using MILES' (San.) VEGETABLE COMPOUND. But if she WANTS to be well, WANTS to be strong, WANTS to walk and work with ease and comfort, she will use MILES' (San.) VEGETABLE COMPOUND. If she can't get it at her Druggist's, she will enclose 15c to 175 St. Paul St., Montreal, and get a large bottle. If she will lose no time in doing it. Explanatory pamphlet, "Woman's Triumph," mailed free on application.

HER LUGGAGE.

A woman who spends her summers abroad says that this last year she took with her only two satchels by way of baggage.

She carried in these another gown, an extra waist, and several changes of underclothing. She never once wore the extra waist, and found that she almost always stayed long enough in any one town to have linen laundered, or could buy anything required nearly as cheaply, so that she did not need the supply on hand.

Thus, although she was laughed at by the friends in her party for her light luggage, and although she had never gone before without a trunk, she came to an important conclusion: "I always learn something in each European journey," she remarks now. "Last summer I learned better than ever to go about with two satchels again. Next summer I intend to take but one."

CATARH CAN NOT BE CURED

With LOCAL APPLICATIONS, as they can not reach the seat of the disease. Catarrh is a blood or constitutional disease and in order to cure it you must take internal remedies. Hall's Catarrh Cure is taken internally, and acts directly on the blood and mucous surfaces. Hall's Catarrh Cure is not a quack medicine. It was prescribed by one of the best physicians in this country for years, and is a regular prescription. It is composed of the best medicines known, combined with the best blood purifiers, acting directly on the mucous surfaces. The perfect combination of the two ingredients is what produces the wonderful results in curing Catarrh. Send for testimonials free.

F. J. CHENEY & Co., Props., Toledo, O. Sold by druggists, price 75c.

"Come, Julia, let's go and have a friendship oyster stew together. Friendship oyster stew! What's that?" "Why, you, pay for mine, and I'll pay for yours."

AN IMPORTANT LETTER.

SHOWING HOW A SUFFERER FROM SCIATICA WAS CURED.

A Correspondent of the Orillia News-Letter, with Permission From the Author Makes the Letter Public—It Will be Gladly Read by Other Sufferers From This Painful Malady. From the Orillia News-Letter.

The following letter has been forwarded us by the Coldwater, Ont., correspondent of the News-Letter, which we have great pleasure in publishing: Coldwater, Sept. 25th, 1896.

A few weeks ago I became very unwell from an attack of sciatica, and remembering that while ago a well known friend of mine, Mr. C. T. Hopson, of Fesserton, a few miles from here, had been a great sufferer from this painful complaint, I thought it would be well to consult that gentleman as to the medicine he gives credit to for his relief and cure, as I was aware that he was now well and hearty and had ever since been in steady work among lumber—his regular business. He gave me the information required, and wrote out the following testimonial which he desires to have published in any way I think proper, hoping that it would meet the eye of many sufferers like myself who are anxious to get relief. I therefore forward it to you to publish— Fesserton, Sept. 18th, 1896.

"It is with the greatest pleasure that I testify to the marvellous benefit and cure that Dr. Williams' Pink Pills effected in my case. In the year 1892 I was taken very bad with sciatica. I was treated at different times by two doctors but dispensed with their services as I found I was not getting the hoped for relief. I then tried different remedies advertised as a cure for sciatica, but with no better result. Then I tried strongly recommended electrical appliances, but still to no purpose. I did not improve any and the pain was excruciating, and I began to lose all hope of ever getting better. I could not sit down or move about without suffering intense pain, and the only relief I could get was when I lay down with my legs stretched straight out and then the pain was somewhat less. I was in this position one day when I picked up a newspaper lying by my side and there I read of a man cured of sciatica by taking Dr. Williams' Pink Pills. Always having but little faith in proprietary medicines, and in view of the experience I already had, I would not have tried them but for the fact that my wife insisted on going at once and procuring some. She got a box and persuaded me to take them. By the time I had finished the box I believe I felt better, so I kept on taking six boxes and by the time I had taken six boxes I was entirely cured. I had been laid up for four months before taking the Pink Pills, and I shall continue to take them occasionally as I know them to be an excellent medicine. I shall never cease recommending them. Yours truly,

Charles T. Hopson.

Our correspondent adds that this letter is from a much respected resident of Fesserton, whose word is generally considered as good as his bond.

The earnest question of the hour, and general theme, no doubt, is not of love or politics, but, "Will the coal hold out?"

BEST AND CHEAPEST

Never was a greater truth than when said of Dr. Agnew's Liver Pills, 20c a vial.

Little priced, little doses, but little terrors to drive out impurities and leave you a clear brain and a bright eye.

Do you suffer from Constipation or other disorders arising from this cause? Dr. Agnew's Liver Pills are a safe and pleasant cure. At all druggists, 40 doses in a vial.

"Why do so many modern writers seem to prefer notoriety to fame?" "Because a man has to climb for fame, but he can get notoriety by an easy tumble."

Piles Cured in 3 to 6 Nights. Dr. Agnew's Ointment will cure all cases of itching piles in from three to six nights. One application brings comfort. For blood and bleeding piles it is peerless. Also cures Tetter, Salt Rheum, eczema, Barber's Itch and all eruptions of the skin. 35 cents.

WORTH TEN DOLLARS A BOTTLE.

Any person who has used Nerviline, the great pain cure, would not be without it if it cost ten dollars a bottle. A good thing is worth its weight in gold, and Nerviline is the best remedy for all kinds of pain. It cures neuralgia in five minutes; toothache in one minute; lame back at one application; Headache in a few minutes; and all pains just as rapidly.

Willie—"It's always in damp places where mushrooms grow, isn't it, papa?" Papa—"Yes, my boy, 'Is that the reason they look like umbrellas, papa?"

FAST LINE TO NEW YORK.

The Lehigh Valley, R. R., in connection with the Grand Trunk Railway, have the first through train service between Toronto, Hamilton, London and principal points in Ontario, to New York City. Only line running Pullman buffet sleeping cars. Time two hours ahead of all other lines.

Passengers from Europe via this line are landed in New York at Desbrosses or Cortlandt streets, in close proximity to all European steamship docks. Don't fail to ask for tickets and sleeping car accommodation via Lehigh Valley route, at all Grand Trunk city and station offices.

Kean—"Isn't your wife afraid to drive that horse?" Steam—"Not at all. It's the people she meets who are scared."

BETWEEN LIFE AND DEATH

For 25 Years, Says Mrs. J. D. Stoddard of Asbury Park, N. J., and Two Bottles of Dr. Agnew's Cure For the Heart Restored the Lost Treasure.

For twenty-five years I have been a great sufferer from heart disease, palpitation, dizziness and nervousness. I saw Dr. Agnew's Cure for the Heart advertised, and determined to try it. Two bottles have done wonders for me. The dizziness and palpitation are gone, the headaches have disappeared. I never cease telling my friends the wonderful benefit this great cure has been to me, and I cheerfully recommend it to any and everywhere.

"Do you think opals are unlucky?" inquired the superstitious man. "Yes," was the reply. "My wife wants one, and it's going to cost me \$50."

For Constipation take Karl's Clover Root Tea, the great Blood Purifier. Cures Headache, Nervousness, Eruptions on the Face, and makes the head clear as a bell.

"Does your latest novel enjoy a large sale?" he inquired. "I don't know whether the novel enjoys it or not," replied the author, "but I do."

Stop that Cough! Take warning. It may lead to Consumption. A 25c. bottle of Shiloh's Cure may save your life. Rural teacher—"What current event of great interest can you give me this morning?" Small girl, eagerly—"My ma has just made twenty tumblers of Jell."

Shiloh's Consumption Cure cures where others fail. It is the leading Cough Cure, and no home should be without it. Pleasant to take and goes right to the spot.

NOTHING WRONG WITH HIM. Goppinger's always behind the times. day how to cure sunstroke. That only shows that Goppinger keeps ahead of the times. You won't be able to test his cure for six months, yet.

1 OUT OF 3 EVERY 3 PERSONS YOU MEET EVERY DAY, WILL DIE OF BRIGHT'S DISEASE or some trouble of the kidneys, urinary or female organs. THIS IS STARTLING BUT IT IS TRUE. WHAT CAN BE DONE? In such a serious condition you must secure the best remedy you can find in the market AT ONCE. There is only one absolutely sure cure for these troubles, and that is Safe Cure. "It has stood the test of time."

ONE AS GOOD AS ANOTHER

It is easy to say that one preparation is as good as another, and it is easy to waste money by buying something you know nothing about, and receiving no benefit. When the body is weak and you want to give it strength, when health is failing, what wisdom is there in experimenting with a substitute, when, for a few cents more, you can buy the original article. For more than twenty years,

SCOTT'S EMULSION

has been the standard Cod-liver Oil emulsion. It contains more pure Norwegian Cod-liver Oil than any other emulsion in the world and will stand the test of time as being a perfect, inseparable emulsion. You can't afford to take a substitute for it. 50c. and \$1.00 at all druggists.

WHAT DR. A. E. SALTER SAYS. Buffalo, N. Y.—Gents:—From my personal knowledge, gained in observing the effect of your Shiloh's Cure in cases of advanced Consumption, I am prepared to say it is the most remarkable Remedy that has ever been brought to my attention. It has certainly saved many from Consumption. Remains to be seen: The boy who has an appointment with the teacher after school is dismissed. W.P.C 859

BE WISE AND TASTE "SALADA" Ceylon Tea Sold in Lead Packets only. H. M. FLOOD & CO., Manufacturers of Biyolet Paris, Cast and Pressed Brass Spooling, Gold Silver and Nickel Platers, 73 ADELAIDE STREET WEST, TORONTO.

TORONTO CUTTING SCHOOL. Young men, learn to cut, no matter what trade, write for circular giving full information, also agents for McDowell's Ladies Garment Drafting Machine, 113 Yonge St.

MILLS, MILLS & HALES, Barristers, Solicitors &c. Also done Chambers, 38 Adelaide Street East, Toronto. Money to Loan. S. G. Mills, B.A.—A. Mills—Jas. Hales, LL.B.

AGENTS WANTED—Male or female to sell the famous "Foam Yeast, in every city, town and village. Write for circular and premium list. Big profits. FOAM YEAST CO., Toronto.

G. DUTHIE & SONS SLATE, SHEET-METAL TILE & GRAVEL ROOFERS Sheet Metal Ceilings, Terra Cotta Tile, Red Black and Green Roofing Slate, Metal Cornices, Fell, Tar, Roofing Pitch, Etc. Gutters, Downpipes, &c., supplied the trade. Telephone 1936. Adelaide & Widmer Sts TORONTO

SEEDS FOR THE FARMER AND GARDENER 5 lbs. Mammoth Mangel (Red or Yellow) for 75c. 5 " Champion Purple Top Swede for 75c. 5 pkts. Vegetables—Beet, Beans, Carrot, Melon, Onion, Peas, Radish, Tomato, etc., for 25c. 5 pkts. Flowers—Sweet Peas, Mignonette, Aster, Candytuft, Balsams, Phlox, etc., for 25c. ABOVE COLLECTIONS BY MAIL POST PAID Wm. RENNIE, TORONTO

DYNAMOS FOR PLATING, POWER OR LIGHT... MOTORS. Repairs to all makes of machines. Experimental work carried out. KAY Elect' Mfg Co., 255 James St. N., Hamilton Phone 858. 68 Adelaide St. W., Toronto Phone 1214.

Only One Price. Equal in every respect to any wheel in the market. It is as good as can be made. ONLY ONE GRADE--The Best \$85.00 THE SUN TORONTO ONT. 73 to 81 Adelaide St. W., TORONTO LIBERAL TERMS TO LIVE AGENTS.

A SENSATION IN FINE MECHANICS Experts concede that the new removable one-piece Yoke Bearing found only on the Cleveland is the nearest approach to perfection yet attained in cycle construction, ensuring perfect alignment. A FEW GOOD AGENTS WANTED. H. A. LOZIER & CO., 169 YONGE ST. TORONTO Send for illustrated Catalogue.