

# SCIENCE AND INVENTION.

## MOTOR CYCLES FOR FEET.

Wheel Skates Which Can Be Used on the Ordinary Roads.

Attempts have been made from time to time to extend the sport of skating to ordinary smooth roads. The reason that roller skates cannot be used on macadam roads is because the rollers are of such small diameter that they drop into every depression and unevenness of the road and check the progress of the skater.

What is necessary, then, is a skate with large wheels. But these, if placed directly under the skater's feet, will raise him dangerously high. However, the difficulty seems to have been solved by a Swiss inventor, Mr. M. Koller, of Winterthur, who has designed the skate shown in the accompanying illustration.

It will be observed, continues the Berlin correspondent of Scientific American, that the skates are each provided with a single wheel which is about a foot in diameter. The skater's foot is supported below the center of the wheel, and in order that the tread may come directly below the center of the skater's foot the wheel is set on a slant. The wheels are dished, comprising a disk of corrugated metal connecting the hub with the rim, and also a series of tension spokes which serve to stiffen them. The foot support is suspended on a hanger attached to the wheel axle, and it is provided with a pair of braces extending upward to support a strap which is fastened around the skater's leg above the ankle. To prevent the wheels from rolling backward a brake is attached to the foot support and bears against the inner periphery of the wheel rim. This brake is normally out of action but is automatically set as soon as the

## THE PARENT OF RADIUM.

Prof. Boltwood of Yale Announces an Important Discovery.

The isolation of a new radioactive chemical element, which appears to be the immediate "parent" of radium, or the substance from which that element is derived, is announced by Prof. Bertram B. Boltwood of Yale in The American Journal of Science. Over a year ago Prof. Boltwood announced that his experiments indicated the separation from uranium of such a substance, and he has now been able to prove that it is identical with none



BERTRAM B. BOLTWOOD

of the radioactive elements hitherto known. He has accordingly given it the name "ionium," because, in common with other radioactive substances, it possesses "ionizing" power, or ability to separate gases into their ultimate constituents. Says Prof. Boltwood:

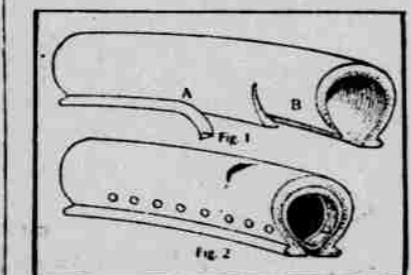
"Experiments which have been carried out with a view to obtaining a quantitative separation of this new element from small quantities of very pure uraninite have given results which are in good agreement with one another and which indicate that the activity of the new element in equilibrium with radium is about 0.8 of the activity of the radium itself with which it is associated. This is about the value to be expected if the new substance is intermediate between uranium and radium."

"Strong evidence has, therefore, been obtained of the existence in uranium minerals of a new radioactive element, which produces no emanation and which resembles thorium in its chemical properties. It is without doubt a disintegration product of uranium and is in all probability the immediate parent of radium."

## REPAIRING TIRE CASINGS.

How Considerable More Wear Can Be Got Out of Them.

An old tire casing that may not be in a condition to warrant the repairing by a regular repair man can be put in condition to get several hundred miles of service from it, says The Motor



Repairing Tire Casings.

Way. If it is blown out, carefully clean the inside of the cover with gasoline for a about five inches each side of the hole. Then take one of your covers that is in bad condition and cut a section about ten inches long out of the best part of it, cutting the beads, A, figure 1, from it and trimming it with a sharp knife at the edges to a thin edge, as shown at B. Carefully clean the outside with gasoline and when ready apply three coats of solution to the inside of the shoe to be repaired, allowing each coat to dry well, also about two coats on the outside of the repair piece, and apply together as you would a patch on an inner tube.

Rivet the patch to the tire casing by using small copper rivets or split rivets in a single row, about one inch from the bead (figure 2), placing the rivets about one and one-half inches apart. After this is done canvas should be cemented to the inside of the casing, covering the entire patch so as to make a smooth surface for the inner tube.

**Two Warships for Russia.**  
It is stated that the Russian admiralty has decided on the construction at the Baltic works of two battle-ships of 25,000 tons, to be completed within two years. They will be armed with ten 12-inch and six eight-inch guns.

**Snails as Sheep Food.**  
English sheep are sometimes fattened on snails.



A Skater and One of the Skates with Motor Attached.

wheel starts to reverse its direction. If desired, this brake may be thrown out of action completely to permit the skater to perform various fancy figures.

In addition to the brake just described, the wheel for the left foot is provided with a rearwardly-extending arm which the skater may use as a drag to retard his motion. The wheel for the right foot is provided with a similar drag arm which also has in connection with it a brake block that bears against the inner periphery of the wheel when the drag arm bears against the ground, thus furnishing the skater with a quick-acting brake for use in emergencies. The inventor also proposes to use a motor in connection with each skate wheel, which will be attached in the manner indicated in the diagram. The wheel will be driven by belts running from the power shaft of the motor to a pulley groove on the felly of the wheel. Fuel for the motor can be supplied from a tank strapped to the back of the skater. It is claimed that wheel skating can be learned in a very short time, beginners having acquired the knack of using them with safety in a few minutes.

## Roof Ventilators.

One can hardly look out of a window in contemplation of the roofs without seeing a number of metal-hooded ventilators, which have come into general use for the purpose of creating an air current in lofts or air chambers. The only disadvantage connected with their use is that in case of fire they act as a chimney and aid materially in the spread of the flames. In a recent improvement made in these ventilators, the hood is held in an open position by a lever movement controlled by a fusible link. In case of fire this link is melted, and the hood is allowed to fall of its own weight, and in doing so it closes the air passage and cuts off the draft.

## Not Lost in Arctic.

Rumors of disaster seem inevitable in arctic exploration. Recently we referred to the probable loss of W. S. Bruce, who was prospecting for coal fields in eastern Spitzbergen. There was strong presumptive evidence that he and his companions had been lost, but word now comes of their safety.

# A - PLACE - TO - SAVE!

Don't delay further the buying of your Winter Dry Goods. Our stock is complete and you will find everything in this store marked at bargain prices. We invite you to give us a chance to prove that you can buy more good merchandise here for the money than any other store in Lincoln

## MEN'S SUITS.

Was \$15.00, now	\$7.50
Was \$13.50, now	\$6.75
Was \$12.50, now	\$6.25
Was \$10.00, now	\$5.00
Was \$ 9.00, now	\$4.50

## MEN'S OVERCOATS.

Was \$15.00, now	\$7.50
Was \$13.50, now	\$6.75
Was \$12.00, now	\$6.00
Was \$10.00, now	\$5.00
Was \$ 9.00, now	\$4.50
Was \$ 8.00, now	\$4.00
Was \$ 7.00, now	\$3.50
Was \$ 6.00, now	\$3.00

## MEN'S DUCK COATS.

Sheep lined, best made	\$4.50
Lighter weight than this one	\$3.50
Plain duck coats, flannel lined, from \$1.50 to	\$2.00

## MEN'S ODD PANTS—75 CENTS

## BOYS' ODD PANTS—19 CENTS TO 59 CENTS.

## BOYS' SUITS.

Was \$10.00, now	\$5.00
Was \$ 8.00, now	\$4.00
Was \$ 6.00, now	\$3.00
Was \$ 4.00, now	\$2.00
Was \$ 2.50, now	\$1.25

## BOYS' OVERCOATS.

Was \$10.00, now	\$5.00
Was \$ 8.00, now	\$4.00
Was \$ 6.00, now	\$3.00
Was \$ 4.00, now	\$2.00
Was \$ 3.00, now	\$1.50

## BLANKETS.

We have a fine line from 60 cents up; we carry only the best in this.

## COMFORTS.

95 cents, \$1.10 and \$1.35.

This is the best line in the city for the money. Men's and Boys' Caps, 19c, 39c and 69c—less than 1/2 value. Heavy work shirts—the best 39 cents.

## LADIES' SUITS.

Was \$21.00, now	\$10.50
Was \$15.00, now	\$ 7.50
Was \$12.50, now	\$ 6.25
Was \$10.00, now	\$ 5.00

These are fine goods, well made and up-to-date.

## LADIES' SHORT JACKETS

made from the best of cloth; sold up to \$18.00; now, on sale to close them out, at \$1.69

## LADIES' SKIRTS

well made from the best of goods; on sale now at less than you can buy the goods for. We have them priced from \$1.39 to \$10.00. You may have the choice in the house for \$5.00. Come and see the goods; we can please you.

We have a small stock of Ladies' and Misses' long coats; on sale at just 50 cents on the dollar of the actual cost.

## FURS

We will sell what we have left, your choice for \$4.00, and we have Furs that sold up to \$15.00.

## CARPETS AND RUGS

What we have left we will sell one-third off the regular price. The prices were 35c, 75c and 85c per yard; you cannot buy any better goods than we have. A fine rug, 9x12 for \$8.00

Men's Heavy Fleece Underwear for 78 cents a suit.

Boys' Heavy Fleece Union Suits for 50 cents.

Children's Ribbed Fleece, in two pieces, 19 cents each.

Men's and Boys' Heavy Warm Sweaters 99 cents.

# Farmer's Dry Goods Co. 236 No. 10th St LINCOLN, NEBRASKA.

## LABOR MEASURES IN CONGRESS.

### Federation Will Enter Fight for Two Important Measures.

American Federation of Labor leaders will make a great effort to get two bills passed by congress this winter. These are the Pearce anti-union bill and the eight hour bill. The labor leaders are looking farther than the capital. They are not at all certain that they will get the legislation they want this winter. If they do not they may be expected to become extremely active in next year's elections, and they are laying their plans to that end. They are getting ready for the hardest fight organized labor has ever made in a national political struggle, one to which the activity of labor in the last congressional elections will, as labor men predict, prove to have been but preliminary, a sort of skirmish preceding the real battle.

## A GLORIOUS NON-UNION TOWN.

Those not acquainted with this city would hardly credit the statement that there is working at our trade in Grand Rapids over 2,000 finishers who produce the finest goods in the furniture line made in the world, but wages average only about \$7.50 a week for ten hours' work a day. There is no organization of any kind in the furniture factories of this city. It is the poorest place I was ever in for a workman to locate, as they work long hours and receive small wages for their labor. It is indeed, a splendid illustration of the model "open shop" city.—General Organizer Sullivan in Painters' Journal.

## NOTICE OF ANNUAL MEETING.

Notice is hereby given that the annual meeting of the Labor Temple Building Association of Lincoln, Nebraska, will be held on Tuesday, January 7, 1908, at 127 North Twelfth street, Lincoln, Nebraska, for the election of six directors of said association. Proxies must be made out on blanks furnished by the secretary. The polls will be open from 8 p. m. until 10 p. m.

J. W. DICKSON,  
Chairman.  
FRED IHRINGER,  
Secretary.

## GENERAL MENTION.

### Blts of Labor News Gathered Chiefly With the Scissors.

The union label—that's all. Look for the union label. If it is not labeled, refuse it. Union made shoes are sold by Rogers & Perkins. Mrs. F. B. Hebbard has been seriously ill for a week, but is now feeling much better. The Carpenters' Union of Chicago has a membership of 12,000, divided into several locals. One-half of the brooms made in the United States are made by convicts. Is your broom convict made? The Flour and Cereal Mill Workers of New York City will have the eight hour day after January 1, 1908. Wm. Hammond of Davenport, Iowa, has been elected sixth vice president of the International Union of Machinists. A visit to the handsomely decorated store of the Armstrong Clothing Co. will be one of the real Christmas treats. District Organizer Murphy of the Switchmen's Union was in Lincoln several days recently, getting the new local into shape for business. Business Agent Dickson of the Carpenter's Union is putting some new ideas into practice, and other unions should watch and use the same tactics. Master Richard Metcalfe Manpin of 1216 South Sixteenth street, is contemplating a visit with M. and Mrs. C. B. Righter at Twenty-third and Dudley streets. President John Mitchell of the United Mine Workers is now out of the hospital. He has gone to his home in Spring alley, Ill., where he will rest for several weeks. Three hundred cigarmakers, employed by the L. B. Millar Co., Pittsburg, Pa., have organized a mutual company and will proceed to put in a factory of their own. The rise in the price of diamonds has not affected the diamond market in Lincoln to any appreciable extent. A rise in the price of coal would be felt much more keenly. Excelsior Powell is telling what he is going to do in the brewery proposition. He might wait until the material begins arriving and then get in his work on the bills of lading. Chris Greunther, district clerk of Platte county, was in Lincoln the first of the week. Mr. Greunther is a law-

yer who can talk trades unionism and its benefits better than most active union men.

The election of six directors for the Lincoln Labor Temple Building Association will take place on Tuesday, January 7, at 127 North Twelfth street. The polls will be open from 8 to 10 p. m.

The Street Railway Employees of Jackson, Mich., are organized. Jackson is hardly as large as Lincoln, but the street car men get 15 per cent more wages than the Lincoln men. There's a reason.

Henry E. Breuning, foreman of the stereotyping department of the Free Press, received a verdict for \$266.24 in his suit against Rollin E. Baker. Breuning sued for \$1500, alleging misrepresentation in a business deal.

The International Brotherhood of Teamsters now has a membership of 125,000 in the United States and Canada. None of the members live in Lincoln. Lincoln teamsters are seemingly content to let the employers have all the say.

Applications for help are increasing at the office of the Charities organization. The attention of the people who contribute to this good cause is called to the fact that they will find almighty few trades unionists' families among the applicants. The unions take care of their own.

The Commercial Telegraphers of Omaha have surrendered their charter in a pout. They are mad because President Gompers refused to levy an assessment for their benefit, even if he was powerless to levy any assess-

ment. That sort of unionism always loses industrial battles.

President Hartzell of the Bricklayers' Union of Lincoln, together with his wife and daughter, Miss Hazel, left for Texas the first of the week and will remain for three or four months. W. H. Smith will occupy the Hartzell residence until the owners return. Mr. Hartzell goes south in the hope of benefiting his health.

The W. L. Douglas Shoe Company of Brockton, Mass., advertises conspicuously that "The lasters in our employ make the highest average wages in the world. No person need to apply for employment, however, except those who are in good standing in the Boot and Shoe Workers' Union, or are willing to become members."

## 20 to 30 per cent Saved ON HOLIDAY BUYING

Our stock is not lackered and you can't possibly know how novel and diversified it is without seeing it.

We are offering something new to choose from and the choice went last long.

Novelties from Japan and Orient Italian Hand Carved Marble Toilet Goods from France

Tell us the recipient and we will help you with a great list of presents suitable for Mother, Father, Sister, Brother, Lover, Friends or Relation.

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1201 O STREET

## A PLAIN SIGN



of satisfaction is shown when a dealer is recommended by his customers. It is our happy lot to say that our oldest patrons are our best salesmen.

## They Know Coal

bought here is always clean and free from slate, and they also know that a ton with us means a ton—never less. Has your experience been altogether of that character.

ADAM SCHAUPP COAL CO.  
Bell 182. 1218 O St. Yard, 18th and R. Auto 3612