

## THINGS WORTH KNOWING.

An ordinary gas-jet consumes as much oxygen as five people.

In 1711 an English law was passed against the wearing of calico, fining both wearer and seller.

Aurora, Ill., was the first city in the world to illuminate its streets with electricity. The wires were placed in position in 1881.

Russia, Roumania and Servia are the most illiterate countries in Europe, 80 per cent of the population being unable to read and write.

The entire circulation of the newspaper press of the world is estimated at 10,700,000,000 copies, and there exists one journal for every 82,600 inhabitants.

It Texas were laid down in Europe, it might be so placed as to include the capitals of England, France, Belgium, Switzerland, Austria, and Germany.

Italy gives to the world outside her borders 2,500,000,000 oranges; Spain 1,400,000,000; Portugal, 80,000,000; Paraguay, 60,000,000; Florida, 65,000,000.

Crime is more common in single life than in married; in the former, thirty-three in every 100,000 are guilty, while only eleven married men of the same number have been broken by the law.

To keep sponges soft and white, wash them in warm water with a little tartaric acid in it, then rinse in plenty of cold water. Do not put in too much tartaric acid, or the sponge will be spoiled.

An agricultural writer figures that the loss to the farmers of the country by the use of narrow wagon tires, through the wear and tear of horseflesh and the loss of time, amounts to \$300,000,000 a year.

There were 5,000 desertions from the British army during 1893, about a hundred more than during the previous year. A few over 10,000 men were discharged during last year; 11,500 were discharged in 1893.

If varnish shows white marks, take linseed oil and turpentine in equal parts; shake them well in a bottle and apply a small quantity on a soft piece of cotton until the color is restored; then wipe the mixture entirely off.

Some 250,000 canaries are trained each year in the Harz region of Germany, and of these 200,000 are sent to the United States, 27,000 are sent to England, 10,000 are sent to Russia and other European countries, and 10,000 remain in Germany.

There are about 100,000 islands, large and small, scattered over the oceans. America alone has 5,500 around its coasts; there are 365 in the Bay of Rio Janeiro, 16,000 around Madagascar and India, and some 1,200 off the eastern coast of Australia, between its mainland and New Guinea.

A man can be married cheaper in Melbourne than in any other part of the world. Ministers advertise in the papers against each other. One offers to bind together loving couples for 10s. 6d., another for 7s. 6d., and so on down to 2s. 6d. In some cases wedding breakfasts and rings are thrown in.

A German physiologist who devoted himself with great patience to the counting of the hairs on different parts of the body, ascertained the average number on a human head found that, taking four heads of hair, of equal weight, the number of hairs, according to color, was as follows: Red, 90,000; black, 103,000; brown, 109,000; fair, 104,000.

Advertising is not an outcome of modern necessity, but is a very ancient practice. The British Museum possesses a collection of old Greek advertisements printed on leaden plates. The Egyptians were great advertisers. Papyrus-leaves over three thousand years old have been found at Thebes describing runaway slaves and offering a reward for their capture; and at Pompeii ancient advertisements have been deciphered on the walls.

The constant use of smelling salts and strong perfumes has been known to destroy the sense of smell. Many women are in the habit of sniffing at smelling-bottles whenever they enter a railway carriage or a crowded place of entertainment, and the constant irritation of the nerve ends leads to their injury, which may even be permanent. Headaches and red noses are also said to be due to the abuse of the smelling-bottle.

It is a tradition among the gilders of New York that they owe their peculiar skill to the redecoration of Windsor Castle at the command of George IV. Every available gilder of London was busied for a long time in gilding the palace, and when the work was done many of them found that their places in the trade had been taken by apprentices. Unable to find work at home many came to America, and some established themselves in New York.

The practice of throwing overboard from ships letters inclosed in sealed bottles centuries old. Hollow copper spheres and oaken barrels have also been used as sea letter carriers in attempts to trace the direction of ocean currents or to send word from persons at sea to friends on land. Buoys readily attach themselves to these drifting letter holders and sink them. Only a very few of the many messages that have been thrown into the sea have ever been recovered.

Growing wheat is a vegetable that is not readily affected by a nipping frost. In fact, it is a hardy plant, and thrives when the temperature is several degrees below the freezing point. When only three or four inches high of snow and the mercury 15 degrees or thereabouts above zero for a day or two does not kill it. When the stem has reached six or more inches and becomes jointed it is more susceptible to the cold, and a blizzard is likely to work damage, but even then only in patches.

The London depot of the Great Eastern Railway, the Liverpool street station, has just been enlarged and is now the largest railway station in the United Kingdom. It occupies an area of 14½ acres, and has eighteen separate platforms, under four parallel and one transverse span of glazed roofing. The platform space for the accommodation and easy circulation of passengers is notably large. Three hundred and seventy-six signalling levers are required to control the movements of the trains, 240 operated from one tower and 136 from another.

**HELIOTROPE**  
AND  
INFANTS' DELICAT  
TOILET SOAP  
JOHN TAYLOR & CO.  
TORONTO  
Sole Manufacturers

**TURKISH DYES**  
EASY TO USE.  
They are Fast.  
They are Beautiful.  
They are Brilliant.  
SOAP WON'T FADE THEM.  
Have YOU used them; if not, try and be convinced.  
One Package equal to two of any other make.

Canada Branch: 431 St. Paul Street, Montreal.  
Read postal for Sample Card and Book of Instructions.  
Sold in St. Paul by J. B. McDIARMID and J. E. MAHONEY, Indianapolis.

**CAFFAROMA**  
Makes the finest cup of pure Coffee in the world.  
"Sold in 1 and 2 lb. Tins only."  
For Sale Wholesale by Turnbull & Co., and C. L. Barbour and by all Retail Grocers.  
C. A. LIFTON & CO., - - MONTREAL.

**F. STEPHENSON & CO.**  
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Nelson St.  
TELEPHONE 675.  
**BICYCLE**  
Repairing and Refitting  
with Pneumatic Tires  
a Specialty.

**SPECTACLES,  
EYE GLASSES,  
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CLOCKS AND BRONZES,  
SILVER GOODS,  
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WATCHES AND DIAMONDS,  
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**A. & J. HAY,**  
—DEALERS IN—  
Diamonds, Fine Jewelry, American Watches,  
Fancy Clocks, Optical Goods, Etc.  
JEWELRY MADE TO ORDER AND REPAIRED.  
76 KING STREET.

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JAMES S. MAY & SON,  
Tailors,  
Have removed from the Dom-  
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WM. STREET, store lately  
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Livery and Boarding Stables, Sydney St.  
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Horse and Carriages on hire. Fine Fit Out  
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MEAT SERVED AT ALL HOURS.  
DINNER A SPECIALTY  
**WILLIAM OLARK.**

**ICE! Wholesale  
and Retail.**  
Telephone 414. Office 18 Leicester Street.  
**Mrs. R. Whetsel**

## HOW AN AXE IS MADE.

Numerous Processes Necessary Between the Furnace and the Emery Wheel.

On entering the main workshop the first step in the operation which is seen is the formation of the axe head without the blade, says the Philadelphia Record. The glowing, flat iron bars are withdrawn from the furnace and are taken to a powerful and somewhat complicated machine, which performs upon them four distinct operations, shaping the metal to form the upper and lower parts of the axe, then the eye, and finally doubling the piece over so that the whole can be welded together. Next the iron is put in a powerful natural gas furnace and heated to a white heat. Taken out it goes under a tilt hammer and is welded in a second. This done, one blow from the "drop" and the poll of the axe is completed and firmly welded. Two crews of men are doing this class of work, and each crew can make 1,500 axes per day. When the axe leaves the drop there is some superfluous metal still adhering to the edges and forming what is technically known as a "fin." To get rid of the fin the axe is again heated in a furnace and then taken in hand by a sawyer, who trims the ends and edges. The operator has a glass in front of him to protect his eyes from the sparks which fly off by hundreds as the hot metal is pressed against the rapidly revolving saw.

The iron part of the axe is now complete. The steel for the blade, after being heated, is cut by machinery and shaped. It is then ready for the welding department. A groove is cut into the edge of the iron, the steel of the blade inserted and the whole firmly welded by machine hammers. Next comes the operation of tempering. The steel portion of the axe is heated by being inserted in pots of molten lead, the blade only being immersed. It is then cooled by dipping in water and goes to the hands of the inspector. An axe is subject to rigid tests before it is pronounced perfect. The steel must be of the required temper, the weight of all axes of the same size must be uniform, all must be ground alike, and in various other ways conform to an established standard. The inspector who tests the quality of steel does so by hammering the blade and striking the edge to ascertain whether it is too brittle or not. An axe which breaks during the test is thrown aside to be made over. Before the material of the axe is in the proper shape it has been heated five times, including the tempering process, and the axe when completed, has passed through the hands of about forty workmen, each of whom has done something toward perfecting it. After passing inspection the axes go to the grinding department, and from that to the polishers, who finish them upon emery wheels.

## Music as a Medicine.

The soothing and calming influence of music is known to all of us. How often, when oppressed by care and anxiety, have we found oblivion and rest in the sweet strains of violin or voice! Yet till recently, no attempts had been made in our day to utilize this power of music in the domain of curative medicine. It, however, we can judge from poets and historians, the power of music was well known and much employed among the ancients. There is evidence that Galen, the father of medicine, employed such music as was known in his day for its healing power. Shakespeare, in "King Lear," shows a physician restoring the King from his madness by lulling him to sleep to the sound of soft music. Nor does the doctor doubt that his remedy will succeed. "What we do awake him," he says, "I doubt not of his temperance. Please you to draw near. Louder the music there." And King Lear gradually awakes, in his sound mind, and recognizes his daughter Cordelia. So, too, in "Holy Writ," we have David playing before Saul, when the evil spirit was upon him. Many other references from the old writers might be given to this soothing effect of music.

There is a distinction between the class of music which should be given to alleviate pain and to produce sleep. In the latter case the music should be of course, very soft and monotonous. There should be a constant repetition of similar phrases, and no striking or unexpected effects should be allowed. To distract the mind from pain—mental or physical—the music should be of a more attractive order, but still soft. Whether in all cases soft music is better as a medicine than lively and exhilarating airs, has not yet been clearly determined. Probably it varies with each particular case; but, at any rate, with soft music does not run the risk of injuriously exciting the patient, which might possibly be done by music of a lively character. The softness must be extreme.

Playing Music After On.  
According to the Kenebec Journal, Charles H. O'Brien has invented a curious musical instrument which he has named the chimaphone. It consists of a series of tuned bells of several descriptions and sizes, strung instruments, tuned wood pieces, steel pieces and bells, all connected by electric wires to a distant keyboard and capable of being played at almost any distance. Several instruments played in this manner he has named the harpophone. They consist of steel wires tuned and played by electric hammers. While operating this machine Mr. O'Brien has discovered that a piece of soft iron rapidly magnetized will produce a clear musical tone, which can easily be varied at the will of the operator.

More Tongue Than Brains.  
The common fluency of speech in many men, and most women, is owing to a scarcity of matter in a scarcity of words; for whoever is a master of language, and bath a mind full of ideas, will be apt, in speaking, to hesitate upon the choice of both: whereas common speakers have only one set of ideas, and only one set of words to clothe them in, and these are always ready at the mouth. So people come faster out of a church when it is almost empty than when a crowd is at the door.

Had It Down Fine.  
"Tommy," said the teacher, "define the word widow—what is a widow?" "A widow," began Tommy, slowly, "is a woman." "Yes," said the teacher—"a woman who wants to get married again," continued Tommy.

For Over-Indulgence  
Use HORSFORD'S ACID PHOSPHATE.  
Think of your head in the morning after a night's hard labor, and take Horsford's Acid Phosphate for speedy relief.

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Cures Coughs, Colds and Weak Lungs. Physicians, the world over, endorse it.

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CROUP, WHOOPING COUGH,  
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Society**  
For Dinners,  
House Parties, Af-  
ternoon Receptions,  
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the necessary, nay, the indispensable  
adjunct to the correct repast is  
**Chocolat-Menier?**  
Only Vanilla Chocolate of  
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MENIER—Beneficial even for the most  
delicate.  
Can be taken just before retiring.

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**MRS. WINSLOW'S  
SOOTHING SYRUP**  
has been used by millions of Mothers  
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Fever, and all the ailments of Infants.  
It soothes the child, soothes the  
cure, always all, cures wind colic, and  
is the best remedy for diarrhoea.  
Twenty-five Cents a Bottle.

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TUMOR**  
A Scientific  
Care without  
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which is per-  
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and is per-  
manent where we have had a reasonable opportunity  
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the beautiful King Square. Large rooms. Good  
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Directly opposite Union Depot. All modern im-  
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free of charge. Terms moderate.  
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J. A. EDWARDS, Proprietor.  
Fine sample room in connection. Also, a first-class  
Livery Stable. Coaches, at trains and boats.

## MEN AND WOMEN TALKED ABOUT.

Governor Greenhalge, of Massachusetts, is a native of England.

It is not generally known that Sarah Bernhardt, the great actress, was once a dressmaker's apprentice.

The queen is sometimes rather shaky in her spelling. When she is in doubt she writes the word so illegibly that the possible mistake is hidden.

Rev. T. DeWitt Talmage will soon complete his twenty-fifth year in the Brooklyn pastorate, and it will be enthusiastically celebrated by his friends.

The late Lord Tweedmouth left by will \$1,000 to his chef, John Rance, "whose conduct and cooking" during many years gave him "great satisfaction."

Mrs. George W. Childs, who has announced her intention of making her home in Washington, will soon begin the erection of a fine residence in that city.

William Chambers, of Chatham, Ont., who is claimed to be a survivor of the battle of Waterloo, is reported to be well and hearty at the great age of 107 years.

Miss Dodd, the lady tennis champion of England, only recently celebrated her 21st birthday. She is an expert bicyclist and golf player, as well as a singer and pianist.

For the first time in the history of the English university boat races a married man, Sir Charles Ross, rowed in one of the crews this year. He was married two years ago.

The Archduchess Stephanie of Austria has joined the already full ranks of novelists. She has recently finished an exciting romance, which is to be illustrated by the best Austrian artists.

Daniel Curry, who died several days ago in Brooklyn, was the first president of the first professional baseball club in this country, Knickerbocker, organized in 1812. He was 82 years of age.

The remains of Edwin Forrest, the tragedian, will soon be removed from the old vault in St. Paul's churchyard, Philadelphia, where they now rest, to the Forrest Home at Holmesburg.

Donald Graham, who died the other day in England, aged 85 years, was a schoolmate of Gladstone, and it was his proud boast that he used to "beat the prime minister at the Shorter Catechism."

M. Alphonse Daudet is engaged on a new work. It is to be called "Memoires d'un Paysan," and is a translation from the Languedoc of the memoir of Baptiste Bonnet, the Burns of Provence.

Though she is past 70, Rosa Bonheur spends a long and busy day at her easel. Photography is her only recreation. Her atelier is so crowded with artistic treasures as to be, in an admirer's phrase, "a private Louvre."

Miss Ray Fuller, of Tacoma, is the first woman to reach the summit of Mount Rainier, of Tacoma, which is 14,444 feet above the level of the sea. Her costume was a flannel bloomer suit, thick woolen hose and heavy corked shoes.

Barrie, the "Thru" novelist, is a shy, boyish-looking man, 34 years old. He said to a recent visitor that he intends to marry "some day, if only to have the convenience of using my wife's hairpins to clean out my pipe." "My lady nicotine" might object.

"Ben" Fillman, Governor of South Carolina, is described as a little man, weighing not over 140 pounds, with only the one good eye, but a good deal of fire in it. No other man in the state can raise a rustic audience to a higher pitch of enthusiasm.

It appears from some family reminiscence of Lord Rosebery, recently published, that the title of Rosebery was borrowed from Yorkshire. The first lord married an heiress from Rosebery Topping, in the broad-acre shire, and when he was ennobled he took the name of the place for his title.

The Archduchess Stephanie of Austria has joined the already full ranks of lady novelists. She has recently finished an exciting romance, which is to be illustrated by the best Austrian artists. The archduchess has previously written several descriptions of travel, but this is her first attempt at fiction.

The only woman astronomer of any importance on the Pacific coast is Miss Rose O'Halloran. She is also the only woman member of the Astronomical Society of the Pacific, having been nominated to the honor by Professor Holden. The San Francisco Chronicle says that from her earliest childhood she was attracted by astronomy.

The Emperor of Germany drinks nothing but Mexican coffee, and a year's supply is sent to him regularly after every harvest from a plantation in the state of Michoacan, which lies on the Pacific coast of Mexico about midway between the United States and Central America. There is a large German colony there which has been cultivating coffee for many years.

The Rev. F. E. Clark, the originator of the Christian Endeavor movement, is generally known as "Father Endeavor" Clark. "The name originated as a huge joke," he says. "It was given me by an old schoolmate, who possessed a remarkable propensity for punning on names. He took the initial letters of my name, and from these originated the name, 'Father Endeavor Clark.'"

Walter Besant, though he writes a great deal about love and talks even more on that interesting topic, does not look like a man of sentimental inclinations. His high forehead and his full beard suggest a scientist, and he is sedate and middle-aged. Mr. Besant is broad enough to have a keen admiration for some of his fellow craftsmen—particularly for Kipling, Stevenson and George Meredith.

Princess Louise, is fond of occasionally throwing off the restraints imposed upon her by her rank, and of visiting incognito those friends to whom she is strongly attached. Not long ago she thus favored a friend who has a castle on the Isle of Wight, and a merry delightful guest she proved to be. She took an active part in all amusements, and was as thoroughly at home in kitchen chat as in that of the drawing-room. Her practical suggestions of domestic economy proved what is said of her to be true—that she is a most accomplished housewife.

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FOR HOUSEHOLD USE.  
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In Coughing, Hoarseness, Nerve-aching, Rheumatism, Sprains, Bruises, Burns, Scalds, etc., it is the best remedy known.  
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Make New Rich Blood.  
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It is the best remedy known for all these ailments.  
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