HOW PAIN WAS MASTERED

e Introduction to Practical Use of An-

Veteran Surgeon Tells of the Great Dis-coveries of Only Fifty Years Ago—Sur-gery Pefore Ether Had Become Known.

A veteran Surreen Tells of the Great Discovertees of only Fifty Years Ago—Surgery Before Ether Had Become Known.

So busy with new discoveries in every branch of science has been this latter half of the nineteent century, that to turn back to the time when our familiar things did not exist almost dislocates our memories—it is like going back to older centuries. One of the most common occurrences of to-day is the use of "laughing gas," or of some other annesthetic; yet surgeons now living and practising can remember the time when operations were performed on persons absolutely and entirely conscious of each stroke of the lancet; for it is not yet fifty years since Horace Wells of Hartford experimented upon himself with "laughing gas," and made the first breach which has enabled the surgeons and chemists of to-day to complete the mastery of pain.

Dr. Benjamin Ward Richardson of London, who was present at the introduction to Great Britain of practical annesthetics, has contributed his recollections of the wonderful event, indicated for centuries, yet stunning in its effect when finally it occurred, and momentous in its power to change the destiny of human life. Before the introduction of anæsthetics operations were simple, comparatively few plastic operations could be performed; but the introduction of ether, chloroform, nitrous oxide, and cocaine has broadened the power of the business man.

In the oldest days of medicine, says Dr. Richardson, mandragora was used as a potion to reduce or remove the pain of surgical operations, and Pliny gave a prescription which Dr. Richardson himself followed with success. Ice, applied to the skin, had been found to produce local anæsthesia, and compresses applied before an operation had been tried by Ambroise Pare and others

TO LESSEN PAIN.

TO LESSEN PAIN.

In 1799 Humphry Davy discovered that nitrous oxide gas rendered him who inhaled it obvious of the common sensibilities. But after Davy came a delay of over forty years until Wells of Hartford experimented with that same gas; and, treading on one another's heels, came after him Morton, Jackson, and Bigelow of Boston, with their discovery of the properties of sulphuric ether.

The first operation in England in which ether was given occurred on Dec. 19, 1846, when Dr. Booth and Mr. Robinson extrected a tooth from the jaw of a Miss Lonsdale.

The first operation in England in which ther was given occurred on Dec. 19, 1846, when Dr. Booth and Mr. Robinson extrected a tooth from the jaw of a Miss Lonsdale. On Dec. 21 or 22 the great surgeon Liston administered ether for the first time in the theatre of the University College Hospital. "Among those present on that occasion," writes Dr. Richardson, "was my old friend, Dr. (afterwards Sir John) Forbes. He described to mee that he never felt so near to falling on the floor in all his life as he did when he witnessed the great surgeon Liston amputating a thigh while the patient was in deep sleep. In those days, in order to save pain, the surgeon cultivated rapidity of action, and such an adept was Liston that he completed the removal of the limb within the minute. This, combined with momentous result of the annihilation of pain, was the cause of the sensation experienced by Forbes. It was not fear, it was not faintness; it was an emotion painful, as

pain, was the cause of the sensation experienced by Forbes. It was not fear, it was not faintness; it was an emotion painful, as he expressed it, from its overwhelming surprise and pleasure. Everybody seemed pale and silent except Liston, who was flushed, and so breathless that when he broke the silence with the word 'Gentlemen' he almost choked."

We who take everything for granted simply because we are accustomed to it do not understand readily what the introduction of anæsthetics meant both to operator and patient. Dr. Richardson indicates to some extent the changes produced on the minds as well as the actions of men; and a history of surgical operations, could one be made, would show the effect more clearly. Says the doctor:

"I remember, still even with pain, what operating day meant as each week came round. When I asked my first practical teacher how he thought I should get through the ordeal of seeing and taking part in an operation, he replied that, as in learning to smoke, time brought tolerance, but that a man must keep his hand in if he meant to retain his firmness and

PRESENCE OF MIND.

I recall that when I had to witness the first capital operation I sought the correction of a control of the control of

RESENCE OF MIND.

I recall that when I had to witness the first capital operation I sought the companionship of a student much older than myself; but it turned out that he was more nervous than I was, and prudently left than myself; but it turned out that he was more nervous ing theatre as the patient entered of the man of the property of the state of the consummate cammes and dexterity with which the operators of the most splendid operators (I am using his distinguished rival. Sir William Fesson's own word) 'this century, or any century, ever knew'—proceeded in his patient take. 'The quicker the surgeon, the patient uttered a surgeon, was then the order of the surgeon, was then the order of the surgeon, was then the order of the tenderness and such was the rapidity in this cat the operation was activally over, in so far at the manjor part of it was concerned, defore the patient uttered a single cry. If all had stopped there, all had been well into just at that moment, as if giving vent to a long suppressed agony, the patient uttered a sire of the tenderness and firmuses with which the nurses assired him it was all over, continued to scream and struggle so that he had to be held while the final steps of the operation were performed. So so that he had to be held while the final steps of the operation were performed. So so that he had to be held while the final steps of the operation were performed. So so that he had to be held while the final steps of the operation were performed. So so that he had to be held while the final steps of the operation were performed. So so that he had to be held while the final steps of the operation were performed. So so that he had to be held while the final steps of the character of the solution of the had to be held while the final steps of the operation were performed. So so that he had to be held while the final steps of the operation were performed. So that he had to be held while the final steps of the operation were performed. So the solution were performed to the solution

pain. Dr. Richardson says that the patiguts approached the table sometimes in soft of trance, always nerved up for did ordeal. The women faced the operations.

BETTER THAN THE MEN.

BETTER THAN THE

ago it was on such objections and arguments that hung the question of the continuation or cessation of the conquest of pain.

Canadian Hosses in England.

The following extract from the London Daily Graphic will be read with interest: "At a time when Canada is asking the mother country to consider the question of a preferential tariff for 'anadian ting the mother country to consider the question of a preferential tariff for 'anadian is increasing and thriving. It is horseflesh, the market for which in the United States has been closed to Canadians by the Mc kinley tariff impost of 30 per cent. on the declared value. It now pays better to export the horses to England, where, although the cost of collecting the horses and of bringing them over is considerable, the very good prices paid for them makes it fairly worth the while of the importer. The horses which pay the importer best are heavy draught horses, but those imported by Mr. R. W. Ffolkes, of Acton, and which are for the main part hacks and carriage horses, realize very good prices. At the last sale, which was the sixth, the prices and are brown and Jerry, brown geldings, a pair of well-matched carriage horses, for 140 guineas; and Boston, bay gelding, for 140 guineas. The horses are farm bred, and are bred generally from English sires."

An Interview with the German Emperor.

Badly Tangled.

"Chi-chi-children," began a timid young man, who had just been appointed superintendent of the Sunday-school, "of course you are all familiar with thestory of the swallow that whaled Jonah—er—er—limean the swale that wallowed Jonah—er—er—that is, the whale that Jonahed—um—um—the Jollow that wonahed the swale—I mean—er—the jail that swallowed wonah—er—er—gug—" (chokes).

"I presume, brother Sims," said one of the teachers kindly, "you mean the Jonah that swallowed the—er—er—that is—"
"Ye—yes, sir," responded the timid young man; "that is what I mean!"

Headaches and Fevers, to cleanse the system effectually, yet gently, when costive or bilious, or when the blood is impure or sluggish, to permanently cure habitual constipation, to awaken the kidneys and liver to a healthy activity, without irritating or weakening them, use Syrup of Figs.

A powerful lamp, which distinctly illuminates objects over half a mile distant, by means of a great reflector, is to be adopted in the French army. It is carried on a "ight-waggon, behind the soldiers, and they will be in obscurity while the enemy and all objects in front will be made conspicuous.

Rheumatic Pains

what that wonahed the swale—I mean—er—the Jollow that wonahed the swale what wonahed the swale was exceptions, all at some time have experienced their twinges. Rheumatic Pains Require no description, since, with rare bind by an operation, to whom one of his grateful patients addressed the couplet, So swift thy hand. I could not feel The progress of the cutting steel, were undertook an operation without being blanched, and experiencing a sensation of anxiety that sas like a scizure, which is moral courage could scarcely concluded by the sense of the first change for the experience, what did it is to the patients appearance, when the church one Sunday morning lately without an umbrella. "How irrigating this is!" she cried.

Require no description, since, with rare exceptions, all at some time have exceptions.

"Ye-yes, sir," responded the timid youndations. The most successful treatment have any in the table of the timid young man; "that is what I mean!"

"Ye-yes, sir," responded the timid young man; "that is what I mean!"

"Ye-yes, sir," responded the timid young man; "that is what I mean!"

"Ye-yes, sir," responded the timid young man; "that is what I mean!"

"Ye-yes, sir," responde

The Grimsby Gold Cure.

The Gold Cure Institute at Grimsby, established for the radical cure of drunk oness, to bacco, morphine, opium and cocaine habits and neurasthems by the Double Chloride of Gold Remedies is a complete success. The treatment has no unpleasant feature whatever. The drunkard is never deprived of his daily supply of whiskey. He is provided with all he wants of the very best till in 48 hours' treatment by the Gold Cure, he, of his own free will, gives up liquor forever. He has to follow no routine of discipline in diet, exercise, social intercourse or any other respect, except in having to go to the physicians four times a day for a few minutes, to have the Remedies administered. This is his only reminder that he is a patient. This modern scientific method of curing the discase called drunkenness is rapid, pleasant and perfect. Those wishing to know more may drop a post card to the Gold Cure Institute, Grimsby, Ont., for their interesting essay, "Drunkenness and its Cure," and pamphlets giving all information, forwarded under plain wrappers.

Matching of Teeth.

Matching of Teeth.

Perhaps the greatest difficulty that dentists meet with is the matching of false teeth with the natural teeth of their customers. The tooth factories supply dentists with rings upon which are strung thin short metal bars, each carrying a tooth at its extremity. There are twenty-five of these sample teeth, that run all the way from nearly white to a shade that is almost olive. Some one of the twenty-five usually almost matches the patient's natural teeth, and, at any rate, enables the dentist to match the teeth by application at the factory.

Many a good wagon has been prematurely ruined by neglect to properly grease the axles, or by using poor grease. Rogers' Peerless Axle Grease is recommended as the most reliable in the market. Sold by dealers everywhere.

Goodness does not more certainly make men happy than happiness makes them good.—[Landor.

"WARNANG," ask your Druggist for GIB-BONS' TOOTHACHE GUM, take no substitute.



gy, thin and weak. Fortify and build them up, by the use of

OF PURE COD LIVER OIL AND
HYPOPHOSPHITES
Of Lime and Soda.
Palatable as Milk. As A PREVENTIVE OR
CURE OF COUGHS OR COLDS, IN BOTH
THE OLD AND YOUNG, IT IS UNEQUALLED.
Genuine made by Scott & Bowne, Belleville.
Salmon Wrapper: at all Druggists, 50c, and
\$1.00.

MORONTO BISCUIT AND CONECTIONERY CO AGIC SCALE FOR DRESS CUTTING taught by Miss Chubb, general agent Ontario. 2561 Yonge St., Toronto Ont.

JOE MESS' "Out of Darkness into Light, or, the story of my life, is the book for agents to handle. Selling price only \$1, term liberal. William Briggs, Publisher, Toronto

FIELD TEA cures Constipation, Sick Headache, restores the Complexion. Get Free Sample at GARFIELD TEA AGENCY 317 Church St., Toron

YOUNG MEN. Learn to cut—No bet instruction given at TORONTO CUTTING SCHOOL, 123 Yonge St. Terms I. derate. Write for particulars. Also agents for the McDowell Garment Drafting Machine.

PILES ITCHING, BLEEDING, EXTERNAL OF INTERNAL, positively cured by EUREK ails. Price 50c. and 81.00 per bottle post-paid, Descriptive circular sent free on application. Ask your druggist for EUREKA or send to W. A. Nesbitt, 101 Bay Street, Toronto.





SEND FOR QUESTION SHEET. ON REGIST OF ANSA LEG ME SELECT WHAT IS REQUIRED. WILL SEND PRICE. COORS ARE BENT BY MAIL, REGISTE CORRECT AND CHEEK.

SEND Stamp for Illustrated Rock.

SURGIOAL MACHINIST, IC4 KING STREET W., TORON

The Grimsby Gold Cure.

Nature's Creative Powers Surpass

Nature's Ureative Powers Surpass all the arts of man. Fearless of contradiction, St Leon mineral water has proved its superiority. Used freely as a table water it absorbs those secretions that quench life. Also St. Leon soothes, feeds, and tones up the nerve and vital forces, is so full of that mysterious life, sustaining fluid can be ignited. The charmed, refined feelings that flow steadily on when St. Leon is imbibed those only can tell who try it well.

Actors were so much schmidged by the late.



**WEAK MEN** 

SUFFERING WOMEN

PALE AND SALLOW GIRLS d take these Pills. They enrich the blood, re health's roses to the cheeks and cor-ill irregularities.

Beware of Intrattons. These Pills are sold by all dealers only in boxes bearing our trade mark or will be sent by mail, post paid, on receipt of price—50 cents a box or 6 for \$2.50. THE DR. WILLIAMS MED. CO.,

TWO CAN ADIAN PATENTS FOR SALE Process of softening and subducing re-fractory ores. Grand chance for miners. For particulars address, INVENTORS UNION, TO-RENTO.

IMPORTANT

The preparation of delicious and wholesome food is necessary to our happiness. To accomplsh this fine materials must be used. We EMPIRE BAKING POWDER

s containing strength, purity, and safet inaranteed to give satisfaction. Manufactu d only by ELLIS & KEIGHLEY, Terent old at 25cts pound tin. Ask your grocer for ARTIFICIAL LIMBS J. DOAN & SON. For Circular Address,

77 Northcote Ave., Toronte DeLAVAL CREAM SEPARATORS. HAND & STEAM POWER.

J. S. CARTERS, - SYRACUSE, N.Y.
FAMOUS RENNET EXTRACT

Cheose and Butter Color.

Cheose and Butter Color.

BABCOOK MILK TESTERS.

Sole Agent for Canada, FRANK WILSON,
Produce Merchant. 33 Peter St., Montreal.

Consignments Solicited.

W. McDOWALL FINE GUNS, RIFLES SHOOTING

SUITS, HUNTING BOOTS, ETC. LOADED CARTRIDGES, ARTIFICIAL BIRDS AND TRAPS A SPECIALTY. B King Street Hast, Toronto



The Montana Mining, Loan and INVESTMENT CO. (LACORTORATED UNDER NONTANA) PAID UP CAPITAL, \$12,000,000 doney anywhere in the United States, or Mexico, without security. If you oney, apply to Local Agents or write BUTTE CITY, MONTANA



CATARRH DR. CLARKS CATARRII CURE
send 5c. in stamps CURED never fails,
or postage and we will mail you FREE
a freetrial package. Clark Chemical Co

ASK YOUR GROCER FOR



If You Wish a Good Nutritious Food,

## KOOTENAY

SILVER MINES.

nadians have invested in 9-10 of the real te of the new towns in Kootenay, while ericans 9-10 of the mines. The success oo towns depends on the success of the mines

Koote nay Mining Investment Co.

represent four duly incorporated Silver Mining Companies, owning twelve mines in British Columbia and two in Montana on the same rich bet, the richest in the world.

The afford the safest and most profitable nvestment in Canada. The first issue of stock places are not considered in the safest and most profitable nvestment in Canada. The first issue of stock places are not considered in the safe will be 25 per cent. higher. Then its advancement will be rapid owing to greated development will be rapid owing to greated development as this, Call at office, Boa of Trade Building, Toronto.

KOOTENAY



THE VERDICT.

All intelligent people endorse our Cata-logue system of advertising by descriptive price list, quoting in plain figures at net cash prices the goods we are selling: WATCHES, CLOCKS

DIAMONDS, JEWELLERY,
SILVERWARE,
ART GOODS, BOOKS, FISHING TACKLE ATRLETIC REQUISITES, BICYCLES.

This book is mailed postpaid to any one remitting 50 cents. It will pay you to secure

WILL BUY A BOYS' RELIABLE WATCH, stem wind; mailed postpaid upon receipt of price. Satisfaction guaranteed or money refunded.

FRANK S. TAGGART & CO... 89 King Street West, TORONTO.

Containing a large per cent age of the flour of Oatmeal. It makes and keeps Lady's hands soft and smooth. It cures eczema and all diseases of the skin.

Be Sure You Get the Genuine. Made by The Albert Toilet Soap Company.

If so, we would urge you not to keep

PUTTING OFF a mat-

ter of so much importance. You will never meet with such another opportun-

ity of INSURING YOUR LIFE

as is now presented by us. For full particulars write the Confederation Life, Toronto, or apply at any of the AGENCIES.