MEDICAL.

Thousands of men and women are nearly cured by an who suffered so from back trouble that they could not stoop to even raise a pin off the floor without the most excruciating pain and misery. Again it would "catch" them in lifting or working so as to often lay them up for days and weeks. Kidneys and indigestion are frequent causes of this, though generally it is Lumbago or Rheumatism or the forerunner of Bright's Disease, Diabetes, Nervous Debility, Premature Decay, &c. Nine out of every ten men and women suffering from this lameness and weakness of the back neglect it, and what is the consequence?—Solid misery and with many poverty from paying enormous doctors' bills and medicines. To these sufferers we offer a positive remedy in DR. SANDEN'S ELECTRIC BELT, which silently but surely furnishes nature's own remedy without dosing, and cures when all other remedies fail.

We have over 2,000 testimonials like this.

DR. A. T. SANDEN, Dear Sir:—I am under lasting obligation to you as a grateful sufferer to one so doubtful you gave my disease. Too years a 1 purchased one of your belts and the result is today I am a well man. I am a platform speaker, a professional lecturer, provided with the best Lyceum Bureau, Tribune Build ng, New York City. Was so lame and unable to fill my engagements for a whole year, through a nerve 2 break down. I suffered from general prostration, bladder trouble, etc., and but for your belt I would have been forced to give up my lecture, and I cannot thank you too sincerely. I can recommend you to hundreds of people, and will recommend you to hundreds more.

Yours truly, JOHN E. CLARKE, 292 West Utica St., Buffalo, N. Y.

Dr. SANDEN'S ELECTRIC BELTS

Cures at once Rheumatism Lumbago Sciatica, Kidney Complaints, Loss Back, &c. Electric SUSPENSORY for men free with all Belts.

To MEN SUFFERING any private weakness we WARRANT the BEST RESULTS.

Large Illustrated Book of great value to all afflicted persons is sent free, sealed by mail, upon application to the inventor and manufacturer.

DR. A. T. SANDEN, No. 826 Broadway, NEW YORK CITY.

The goods are forwarded to any Postoffice in Canada, FREE OF ALL CUSTOM, DUTIES or INSPECTION.

Miss Flora McDonald.

AN ACHING HEAD.

Dear Sirs,—I had severe headache for the past three years, and was not free from it a single day. I used doctors' medicines and all others I could think of, but it did me no good. My cousin said I must

TRY B.B.B.

because it is the best medicine ever made, and I took three bottles of it, with the result that it has completely cured me. I think Burdock Blood Bitters both for headaches and as a blood purifier, is the

BEST IN THE WORLD,

and am glad to recommend it to all my friends. Miss Flora McDonald, Glen Norman, Ont.

WOOD'S PHOSPHODINE. The Great English Remedy.

Before and After.

Six Packages Guaranteed to promptly and permanently cure all forms of Nervous Weakness, Emissions, Sperm-atorrhœa, Impotency and all effects of Abuse or Excesses, Mental Worry, excessive use of Tobacco, Opium or Stimulants, which soon lead to Insanity, Consumption and an early grave. Has been prescribed over 35 years in thousands of cases; is the only Reliable and Honest Medicine known. Ask druggist for Wood's Phosphodine; if he offers some worthless medicine in place of this, inclose price in letter, and we will send by return mail. Price, one package, $1; six, $5. One will please, six will cure. Pamphlets free to any address.

The Wood Company, Windsor, Ont., Canada.

Sold in Kingston, wholesale and retail, by G. S. HOBART & SONS. Mail orders promptly filled.

Indapo Made a Well Man of Me.

INDAPO THE GREAT HINDOO REMEDY PRODUCES THE ABOVE RESULTS in 30 DAYS. Cures all Nervous Diseases, Failing Memory, Parasis, Sleeplessness, Nightly Emissions, etc., caused by past abuse, gives vigor and size to the whole organism, and quickly, but surely restores Lost Manhood in old or young. Easily carried in vest pocket. Price $1.00 a package, or for $5.00 with a written guarantee to cure or money refunded. Don't buy an imitation, but insist on having INDAPO. If your druggist has not got it, we will send it prepaid. Oriental Medical Co., Prop., Chicago, Ill., or sole agents. SOLD by G. S. Hobart & Sons, Chemists & Druggists, sole agents for KINGSTON, ONT.

ERRORS OF YOUNG AND OLD.

ORGANIC WEAKNESS, FAILING MEMORY, LACK OF ENERGY positively cured by Hazelton's Vitalizer. Also Nervous Debility, Dimness of Sight, Loss of Ambition, Stunted Development, Loss of Power, Pains in the Back, Night Emissions, Drains in Urine, Sleeplessness, and all ailments brought on by youthful folly. Address, enclosing 3c stamp for treatise, J. E. HAZELTON, Graduated Pharmacist, 338 Young street, Toronto. Sold by all druggists.

NERVE BEANS

NERVE BEANS are a new discovery that cures the worst cases of Nervous Debility, lost Vigor and Failing Manhood; restores the weakness of body or mind caused by overwork, or the errors or excesses of youth. This Remedy absolutely cures the most obstinate cases when all other treatments have failed even to relieve. Sold by druggists at $1 per package, or six for $5, or sent by mail on receipt of price by addressing THE JAMES MEDICINE CO., Toronto, Ont. Write for pamphlet. Sold in Kingston by H. Wade's Drug Store.

BLOOD POISON or Syphilis positively cured in 30 to 60 days by a Magic Remedy, under guarantee, backed by $500,000 capital. Positive proofs and 100 page book, illustrated, free for life from people cured, free by mail. When Hot Springs and mercury fail, our Magic Remedy will cure.

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The Ladies' Helper—French Pills. For all diseases peculiar to Female Irregularities, removing all obstructions from whatever cause. Sent by mail on receipt of $2 per box. Address J. E. HAZELTON, Graduated Pharmacist, 338 Yonge Street, Toronto.

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FRESH FRUIT arriving every day. Fine stock and cheap.

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THE G. O. M. OF CHINA.

LI HUNG CHANG, THE PREMIER OF THE EMPIRE.

A Celestial Statesman of Great Ability Who Is Progressive—The Bismarck of China—Frank G. Carpenter Interviews Him for Our Readers.

LI HUNG CHANG.

JEN-TSIN, CHINA—I have just returned from the palace of the greatest man in China. I refer to Li Hung Chang. He is the premier of the Chinese government, the viceroy of the imperial provinces of Chihli, and the power behind the throne which governs the fate of nearly five hundred millions of people. In his own province he has almost supreme control of a population numbering 35,000,000, and here a wink of his eye can cut off a head. He has more power than any ruler in Europe, with, perhaps, the single exception of the czar, and he is almost the sole representative of the government in its dealings with foreign nations. He has control of the Chinese navy. His army is by all odds the best in the empire, and he has at his back ten thousand more troops than the standing army of the United States. These troops have been trained by European military officers. They are all armed with the latest of modern guns, and they know no meter but Li Hung Chang. They are, in fact, practically his slaves.

Li Hung Chang is the most progressive Chinaman of to-day. Gen. Grant spent some time with him here during his tour of the world, and the two talked over the future of China together. They discussed military and civil matters, and Gen. Grant said he considered Li Hung Chang one of the greatest statesmen of the age. He called him the Bismarck of China and was wont to compare him with Gladstone. The two men fell in love with each other, and they corresponded to the day of Gen. Grant's death. Now, on every Decoration Day, the Chinese legation at Washington sends, by the orders of Li, flowers to place on Gen. Grant's grave, and during my talk with the viceroy he was very solicitous as to the health of Mrs. Grant. The two men had a great deal in common. Their careers were somewhat similar. Li was the son of a great scholar in the province of Anhui. His father was, however, poor, and he had no official rank. Li was given a good Chinese education, and he soon jumped to the front as one of the greatest scholars in China. He passed three public examinations, which means that he was three times one of the 200 successful men out of the 15,000 competitors, and at his last examination he took the highest degree of the whole 15,000. He is a member of the Hanlin College, the most learned body of China, and he had a great deal to do in the education of the emperor. His scholarship gave him the position of military secretary to Gen. Tseng Kuo Fan, one of China's most famous statesmen of the past, and from here he rose to the governorship of the state of Kiangsi. He was acting as such during the Tai Ping rebellion, and it was he who, in connection with the American adventurer, Ward, and Chinese Gordon, put down this rebellion. Li Hung Chang was the commander-in-chief of the imperial forces, and the rebels were slaughtered by the millions. It is estimated that 10,000,000 of people were killed during this rebellion, and when it was over Li's fortune was made. This was away back in the fifties, and Li Hung Chang has since then been the leading figure in Chinese history. He rose from his governorship to be viceroy of Wuchang, and as such controlled millions of people in central China. He was next made the viceroy of this, the imperial province. His capital here is one of the biggest cities of China, and it contains more than a million people. It is the centre of the northern trade of the empire, and Li has control of everything that comes into North China. This trade amounts to many millions of dollars a year.

He is a pure Chinaman, but he has adopted many modern methods. He manages his great official force much like one of our western executives and he has a staff of interpreters to keep him posted on what is going on over the world. He subscribes to the clipping bureaus and everything that is printed in Europe and America concerning China is sent here and translated for him. He has control of the Chinese telegraph system and it was he who introduced the electric wire into China. From his capital now runs more than 8,000 miles of wire, connecting him with the emperor and with the governors of all the provinces, and he has the news of all the world cabled to him daily.

But let me describe the interview I had with this great statesman in his palace. It was arranged for me through the American consul to Tien-Tsin, Mr. Sheridan P. Reade, and the secretary of the Chinese navy, the Hon. Lo Feng Luh.

I was first led into two reception rooms and was given a seat in the more honored one of the two, the place reserved for Chinese mandarins of high rank. It was rather ragged for a palace and for the ruler of such a vast people.

After a time the word came that the viceroy was ready to receive me. We rose and walked out behind a gorgeous but sombre official, who held my red card high up in the air before him and strutted like a drum major. We walked through long corridors running around open courts, and at last came into a large parlor furnished in half Chinese, half European style. Here near a Japanese screen by a table stood a tall old man to whom the secretary of the navy bowed low as he introduced me. It was Li Hung Chang, the great viceroy of China. His personality impressed me even more forcibly than when I met him in that same room five years ago. He is now 74 years of age, but stands firmly and his long gown, which reaches to his feet, makes him look like a giant. He is in fact 6 feet 2 inches in his stockings, and the thick soles of his Chinese shoes add another inch to his stature. He has a slight stoop. His shoulders are broad, and in his prime he must have possessed great muscular power. He is by no means an old looking man to-day. There are few wrinkles in his cream-colored face, and his straggling beard is black, mixed with silver. His eyes are black, bright and piercing and the eyelids are of the pronounced almond shape. He has high cheek bones and a full forehead. His black cue is mixed with gray and his head when I met him to-day was crowned with a black satin Chinese cap, in the front of which glittered a solitaire diamond as big as the end of your thumb.

Li Hung Chang received me with a stately bow, slightly bending his body, but not offering his hand. He then motioned me to follow him and conducted me into the second parlor, where he receives visitors of state. The talk commenced with his asking me how old I was. I told him and thereupon said that I hoped that if I lived to be 74 I would look as healthy and be able to work as hard at that age as he did. I said to him that he looked no older than he did when I was here five years ago, and asked him what was the secret whereby he was able to retain his wonderful youth.

As this was translated to him the viceroy's eye brightened. I could see the remark pleased him and he replied: "You are right when you think I have good health. I do a great deal of work and I expect to do a great deal in the years to come. In your country people say that a man should divide his day into three parts. Eight hours should be devoted to sleep, eight to outdoor exercise and eight to work. I sleep only five hours a day. I work about twelve hours and I take a regular amount of exercise every day. I think my health is largely due to my temperance and to the regularity of my habits. I do everything by rule and I plan my work systematically. I don't worry and I sleep well. I required eight hours' sleep until I was 30 years of age, but now I find that five are sufficient for me. I do not exercise in the open air, but take a walk within the yamen every day and limit myself to a certain number of steps." Here Mr. Lo, the interpreter added: "His excellency takes 5,000 steps in the way of exercising daily and he finds this exercise keeps his muscles in good condition."

I asked as to his diet. The question was repeated to him and his answer, as translated, was: "I believe that man should be very careful of his eating, and I never overload my stomach. I know by experience what agrees with me and I take nothing else. The foreign doctors tell me I ought to eat more heavy meats, but I find that a mixed Chinese and European diet suits me best. I believe in eating plenty of vegetables. I think well of beef juice and eat considerable of it. I do not drink much wine and think man is just as well off without it."

I referred to the future of China, and asked the viceroy whether he thought the country would be developed by Europeans or by the Chinese. He replied that there would undoubtedly be a great development and that railroads would cover China as with a net. He believes that it will eventually do all its own manufacturing and that in the future it will enter the markets of the world as a great manufacturing nation. Already, he told me, the statesmen of the empire are making experiments of all kinds in this line and their cotton factories are to-day among the largest of the world, and other vast works are planned. He gave me to understand, though he did not use these words, that the motto of China from now on would be "China for the Chinese," and intimated that the Chinaman could hold his own against the world as a worker and manufacturer. He was very gracious in his treatment of me, and the interview lasted for nearly an hour. It was closed by the bringing in of three glasses of champagne, after the sipping of which the viceroy walked with myself and Mr. Lo Feng Luh out to the outer door of the yamen and shook my hand in American fashion as he said good-by.

FRANK G. CARPENTER.

A BOMB FOR "THE WITNESS."

The Wreck and Destruction in the Montreal Paper's Press Room.

On Friday, 29th June, there was a deliberate attempt to wreck the office of the Montreal Witness, and no doubt the presses of the concern were expected to be demolished by the means used.

However lacking in the knowledge undertaken by them, the perpetrators of the outrage took good care to leave behind them no evidence to their identity. The police are utterly at sea; indeed they have no theories, but will do their best to discover the rascals. The illustrations herewith given tell the story better than words, the hole in the press room floor being two feet long. Mr. Dougall, editor and proprietor of the Witness, says he has no suspicion of the guilty parties. The circumstances warrant provincial investigation as dynamite is a weapon too cowardly and too deadly to call for any leniency.

PRESS ROOM AFTER THE EXPLOSION.

HOLE IN PRESS ROOM FLOOR.

All Men

Young, old or middle aged, who find themselves, nervous, weak and exhausted, who are broken down from excess or overwork, resulting in many of the following symptoms: Mental depression, premature old age, loss of vitality, loss of memory, bad dreams, dimness of sight, palpitation of the heart, emissions, lack of energy, pain in the kidneys, headaches, pimples on the face and body, itching or peculiar sensation about the scrotum, wasting of the organs, dizziness, specks before the eyes, twitching of the muscles, eyelids and elsewhere, bashfulness, deposits in the urine, loss of will power, tenderness of the scalp and spine, weak and flabby muscles, desire to sleep, failure to be rested by sleep, constipation, dulness of hearing, loss of voice, desire for solitude, variability of temper, sunken eyes, surrounded with LEADEN CIRCLES, oily looking skin, etc., are all symptoms of nervous debility that lead to insanity unless cured. The spring or vital force having lost its tension every function wanes in consequence. Those who through abuse committed in ignorance, may be permanently cured. Send your address and 10c in stamps for book on diseases peculiar to man, sent sealed. Address M. V. LUMOS, 24 Macdonnell Ave., Toronto, Ont., Canada. Please mention this paper

The Active Canadian.

Cape Vincent Eagle.

One matter strikes usas being strange. Every year scores and scores of Canadian workmen come to the Cape and find employment with farmers in haying and harvesting, receiving good wages, while the Cape Vincent men stand on the corners or sit propped back in the hotel or saloon chairs and talk about hard times. It is this class of men that are generally supported by their wives doing washing.

Relief In Six Hours.

Distressing kidney and bladder diseases relieved in six hours by the Great South American Kidney Cure. This new remedy is a great surprise and delight on account of its exceeding promptness in relieving pain in the bladder, kidney, back and every part of the urinary passages in male or female. It relieves retention of water and pain in passing it almost immediately. Sold by H. Wade and James B. McLeod.

The Japanese minister in London said in an interview that until the needful reforms in Corea were secured the Japanese troops would remain in that country.

Wash your linen with Wide Awake Soap, and see how beautifully white they will be.

October 25, 1893.

My health was completely restored by CAMPBELL'S SCREW COD LIVER OIL. 3 bottles taken in 22 days increased my weight by 16 lbs.

HENRY ZIVERN, Prop. Renovo Co. Montreal.

MISCELLANEOUS.

INSURE YOUR DIGESTION By taking the advice of Dr. Craig Ellison, President of the Board of Health, New York, who recommends ADAMS' TUTTI FRUTTI Beware of Worthless Imitations.

McLAREN'S CELEBRATED COOK'S FRIEND BAKING POWDER Has no Superior in Purity, Healthfulness and Economy. It is distinguished from alum powder by the bread, etc., made with it, having no tendency to dry up

BLANK ACCOUNT BOOKS, Note and Letter Paper, Books and Stationery, —AT— McAULEY'S Bookstore, OPPOSITE CITY HOTEL, 128 PRINCESS STREET. See our new Hammocks. All the latest kinds cheap. T. McAULEY.

Big Summer Sale —AT— Spence & Co's Parasols 20 per cent off. Jackets and Capes about half price. Fancy Silks for Blouse Waists in stripes and plaids only 49c. Regular prices 90c and $1. All-wool Challies only 15c a yard. SPENCE & CO., 132 & 134 Princess Street, Opposite City Hotel.

Hand & Co., Fireworks Manufacturers, HAMILTON, ONT. Dealers supplied with extra quality in FIREWORKS, CRACKERS, TORPEDOES, FLAGS, LANTERNS, Etc. PYROTECHNIC EXHIBITIONS for celebrations, summer and winter carnivals, fall fairs, etc., a specialty. Programmes and estimates furnished on hortest notice. HAND & CO., HAMILTON, ONT.

The Bread Baker. It is so easy to make light, white bread with good Flour, that no one (at present prices) should attempt to use inferior Flour. OUR QUEEN FLOUR, which won the highest honors at the World's Fair Chicago, we warrant the best made Ask for it. M. McLAUGHLIN & CO., Royal Dominion Mills Toronto

OYSTERS The year round W. H. CARNOVSKY, THE LITTLE FISH MARKET. Around the Corner. TELEPHONE 81.

FLOOR PAINTS! Imperial Measure vs. Wine Measure. When you want a gallon see that you get it. We claim to have the BEST FLOOR PAINTS that are offered on the Canadian markets. Some makers have the audacity to talk up very common paints that have no material advantage except that they dry. When you want Floor Paint get ELEPHANT. Best Floor Paint. Beautiful hard finish. Only made for floors. Send for cards. STRACHAN'S.

DELICIOUS! Our Soda Water is Delicious. We make all our own Syrups from the fruit, charge our own cylinders, and can thus guarantee that everything in the Soda Water line is pure and clean. We wish you to sample it and be convinced that the finest Soda Water in the city is to be had at CHOWN'S DRUG STORE, 159 PRINCESS STREET. Telephone—86.

MISCELLANEOUS.

The Best Food For Children? is worthy every parent's study; not only what they can eat, but what gives the most nourishment. No children are better, and most are worse, for eating lard-cooked food. If, however, their food is prepared with the healthful new vegetable shortening, COTTOLENE instead of lard, they can eat freely of the best food without danger to the digestive organs. You can easily verify this by a fair trial of Cottolene. Sold in 3 and 5 lb. pails by all grocers. Made only by The N. K. Fairbank Company, Wellington and Ann Sts., MONTREAL.

Great Sale of Fruit Jars. Porcelain top Mason fruit jars, pints per dozen, 75c; quarts, per dozen, $1; half gallon, per dozen, $1.20; extra heavy, best, clear glass crown fruit jars, guaranteed to keep fruit for five years; pints, per dozen, 95c; quarts, per dozen; $1.10; half gallon, per dozen, $1.35, fruit jar rubbers, all sizes, 8c per dozen; fruit jar fillers.

Tumblers, clear glass tumblers, plain and cut, 6 for 20c; fine thin blown tumblers, heavy and light bottom, only 5c each; heavy tumblers, plain, cut and banded, only 5c; lemonade glasses, 5c, 7c and 10c each.

Water sets, cut glass pitcher, four tumblers and silver embossed tray, complete only 85c. Extra value, large sized satin engraved pitcher, 4 tumblers, finger bowl and silver embossed tray, complete only $1. We keep a full line of water sets in clear crystal, ruby, blue and amber.

Lemonade sets in amber and blue, large jug and two glasses in fancy basket, complete only $1.50.

Soda water tumblers, flaring or turned, in heavy or thin glass, $1 per dozen; lemon squeezers, in glass, 7c.

Window screens, adjustable screens with patent fly escape, reduced to 35c, 40c and 49c.

Hammocks, a full line of cord and woven hammocks, large sizes, from 75c to $4.25.

Baby Carriages, special bargains in baby carriages all reduced.

Baskets, fine white cedar, covered baskets, 8c, 10c, 12c and 15c each.

Soap, Wanzer's pure soap, 2 cakes for 5c; brown Windsor, 2c cake; all the finest toilet soaps, 9c per cake or 3 for 25c; laundry soap, best family laundry soap, 3 bars for 25c; best electric and Ruby soap, 10 bars for 25c.

Knives—See our 10c pen knives, the finest line of pen knives ever shown in Kingston, usually sold for 20c; jack knives, rose, ebony and white bone handles, 15c, 25c, 35c and 50c each. Full line of table cutlery, dinner and desert knives and forks, tea knives, dinner, desert and tea spoons, silver knives and forks. Hardware peeling knives, 7c each.

Woods' Fair, CORNER OF PRINCESS AND WELLINGTON STREETS, KINGSTON, ONT.

MINERAL WATERS. All the leading Mineral Waters sold by the glass or bottle at the City Drug Store. Bethesda. Buffalo Liathia, St. Leon. Deep Rock. Jas. B. McLeod

RECIPE For Making a Delicious Health Drink at Small Cost.

Adams' Root Beer Extract	one bottle
Fleischmann's Yeast	half a cake
Sugar	two pounds
Lukewarm water	two gallons

Dissolve the sugar and yeast in the water add the extract and bottle, place in a warm place for twenty-four hours until it ferments then place on ice when it will open sparkling and delicious.

The root beer can be obtained in all drug and grocery stores in 10 and 25 cent bottles, to make two and five gallons.

Dead In Line. Will be the result if you purchase your INSECT DESTROYER at HOAG'S DRUG STORE. We supply you with nothing but the very best and purest Insect Powder—"Pangloria" and "Shoo Fly." When purchasing see that you are dead in line for HOAG'S DRUG STORE, OPPOSITE WINDSOR HOTEL.

JARDINES. Just opened, the prettiest we have ever shown. Also a special line we are clearing at cost. ROBERTSON BROS., 107 PRINCESS AND 87 BRIDGE ST.

PIANOS. NEW OR SECOND-HAND AT CARNOVSKY WOOD MANUFACTURING CO'Y FACTORY, Ontario street.

SAILING THROUGH AIR.

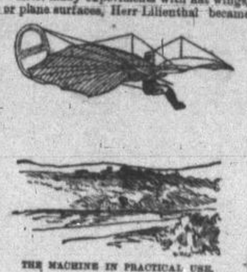
ARCHED WINGS THE SECRET OF FLIGHT IN FLYING MACHINES.

Lilienthal Describes the Principal of His Latest Invention—He Has Soared for Nearly 300 Yards With the Apparatus He Has Constructed.

The experience of the century and more which has elapsed since the invention of Montgolfier has taught us that the balloon is of practical service only when confined. The whims of the winds are too capricious to afford a trustworthy basis of procedure, and notwithstanding the expedients which the progress of science has made it possible to apply, all attempts to control a free balloon, or to guide it in any given direction, have thus far been unavailing, and we seem to be no nearer a satisfactory solution of the problem than were our predecessors of a hundred years ago. The attention of investigators has been diverted, therefore, to flying machines, like Prof. Wilner's, and air ships, like Mr. Maxim's.

Herr Otto Lilienthal, of Berlin, who has some celebrity as "The Flying Man," has conducted a long series of experiments, which have at length been rewarded with an encouraging measure of success. Herr Lilienthal was born forty-six years ago in Anklam, near the Baltic coast of Pomerania, about sixty miles to the north-west of Stettin. A residence so near the sea afforded him in early life many opportunities of prosecuting his favorite studies and observations. In later years he migrated with his younger brother, Gustav, his enthusiastic coadjutor in all his researches, to Berlin, where he established and is now conducting a large manufactory of small steam engines, whose mechanical appliances furnish him with every facility for the construction of his flying apparatus. He resides, however, in the suburb Lichterfelde, and his late experiments have been conducted chiefly in the neighboring localities of Steglitz and the Rhinower Bergen. He is an accomplished mathematician and a close observer of nature.

After many experiments with flat wings, or plane surfaces, Herr Lilienthal became convinced that it was the gentle parabolic curve of the wing which enables a bird to sustain itself without apparent effort in the air, and even to soar, without a motion of the wings, against the wind, like the albatross, or sea gull or stork; and this may be regarded as the most important outcome of Herr Lilienthal's investigations.



THE MACHINE IN PRACTICAL USE.

"Now that we possess diagrams," said Herr Lilienthal, "which plainly illustrate all these phenomena, it seems quite easy to explain the flight of birds, for every crow that flies over our heads offers a practical solution of the riddle. Recent researches into the laws of atmospheric resistance lead clearly to the deduction that curved or arched surfaces are to be preferred to flat ones. But the original discovery was by no means as simple and self-evident as it now appears. There are still prominent investigators who will not see that the arched or vaulted wing includes the secret of the art of flight. As we came upon the track of this idea, my brother and I, who were then young and wholly without means, used to spare from our breakfast, penny by penny, the money to prosecute our investigations; and often the struggle for life compelled us to interrupt them indefinitely."

To the conviction that concave or vaulted wings were essential to success, Herr Lilienthal was led not only by the examination of a great variety of natural wings, and by theoretical deduction, but by actual experiment. The means adopted for this purpose were ingenious and simple. He fitted up an apparatus in the form of the "fly fans" found on the dining tables of clubs and restaurants, with two long arms revolving horizontally, to the ends of which surfaces of different kinds and degrees of curvature could be affixed in any required position. The motive power was furnished by a weight and could be exactly measured. There was also an adjustment which enabled the observer to measure the lifting force of various surfaces moving at different angles of inclination through still air.

By this means Herr Lilienthal was enabled to reach conclusions which were of great value to him in the construction of his flying machine, and the most important of them was that the most effective form of wing was that whose convexity, as measured by the versed line of the arc, should be one-twentieth of the breadth of the wing, or, of the length of the chord connecting the opposite edges.

The flying machine devised and now used by Herr Lilienthal is designed rather for sailing than for flying, in the proper sense of the term, or, as he says, "for being carried steadily and without danger, under the least possible angle of descent, against a moderate wind, from an elevated point to the plain below. It is made almost entirely of closely woven muslin, washed with collodion to render it impervious to air, and stretched upon a ribbed frame of split willow, which has been found to be the lightest and strongest material for this purpose.

Its main elements are the arched wings, a vertical rudder, shaped like a conventional palm leaf which acts as a vane in keeping the head always towards the wind, and a flat horizontal rudder to prevent sudden changes in the equilibrium. The operator so adjusts the apparatus to his person that when in the air he will be seated upon a narrow support near the front, and, with the wings folded behind him, makes a short run from some elevated point, always against the wind, and, when he has attained sufficient velocity, launches himself into the air by a spring or a jump, at the same time spreading the wings, which are at once extended to their full breadth by atmospheric action, whereupon he sails majestically along like a gigantic sea-gull. In this way Herr Lilienthal has accomplished flights of nearly three hundred yards from the starting point.

"No-one," said Herr Lilienthal to me, "can realize how substantial the air is until he feels its supporting power beneath him. It inspires confidence at once. If the wings were flat the speed might be greater, but the sustaining power would be reduced, and the descent would therefore be more rapid. With arched wings it is possible to sail against a moderate breeze at an angle of not more than six degrees to the horizon.

"It was only gradually that I arrived at the proper dimensions. Those which I now employ are never more than twenty-three feet from tip to tip, and I am thus enabled by a simple change of posture so to alter the position of the centre of gravity as to restore the equilibrium.

"There are limits also to the breadth of the wings or their extension backward. The operator must be able in a moment to to transfer the centre of gravity so far to the rear as to overcome the action of the air, which might otherwise tend to throw him forward and precipitate him to the earth. It is not easy to realize in practice at first, but after a short experience the movement becomes almost involuntary."

"But is there not great danger," I asked, "of a serious fall in such cases?"

"No," replied Herr Lilienthal. "When there is no wind the apparatus acts simply as a parachute. I have more than once found myself in this position, when I have utilized the speed obtained in gradual descent in rising to a greater height, to soar over some obstacle like a tree or a crowd of people. Under favorable circumstances it is easy to mount to a height even greater than that of the starting point, but the forward motion is thereby partially or wholly neutralized, and it may happen that one comes to a complete standstill in midair. In such cases it is only necessary to throw the centre of gravity so far back that the air shall act more powerfully on the forward surface, and the gradual gliding descent is resumed. So, in landing, I bend backward exactly as a crow does when alighting in a field and reach the ground without the slightest shock. The worst that is likely to happen in any case is the breaking of the apparatus; there is little danger to life or limb.

"I am far from supposing that my wings, although they afford the means of sailing, and even of soaring in the air, possess all the delicate and subtle qualities necessary to the perfection of the art of flight. But my researches show that it is well worth while to prosecute the investigations further, and in the end, perhaps to realize the beau ideal of all modes of motion and to put it to practical account."

Having demonstrated the practicability of sailing and soaring, Herr Lilienthal has sought in his recent experiments, to reach a practical solution of the problems of actual flight. The first difficulty to be overcome was the discovery of a suitable motor. Herr Lilienthal conceived the ingenious idea of employing, as a motive force, the vapor of liquid carbonic acid, which, under ordinary atmospheric pressure, boils at a temperature far below that at which mercury freezes. The engine devised by Herr Lilienthal required no fire, nor boiler, nor steam chest—only a diminutive cylinder with the requisite valve arrangements, which may be readily worked by hand, and a small reservoir of the liquid acid lying close beside it.

The engine first constructed was of two horse power, with a receiver to contain enough carbonic acid to last for two hours, and was attached to the front of the flying apparatus. The whole contrivance, with the necessary machinery to impart motion to the wings, added less than twenty-five pounds to the weight, and this will probably be reduced in future by the use of some alloy of aluminum instead of iron in the manufacture of the heavier portions. The wings were also fitted with rotary pinions capable of automatic action under the pressure of the air. The first experiments with this apparatus were rather too successful, at least in demonstrating the power of the engine. Unfortunately the inventor had underestimated the energy of his motor, which acted with such unexpected vigor that the wings were broken, and the modifications thus shown to be necessary will require some time for their completion. It is only by a series of trials that the proper relations between the various parts of the machinery can be determined. Herr Lilienthal confidently expects, however, eventually to solve the problem in this way.

Nothing Strange.

Intelligent people, who realize the important part the blood holds in keeping the body in a normal condition, find nothing strange in the number of diseases that Hood's Sarsaparilla is able to cure. So many troubles result from impure blood that the best way to treat them is through this blood, and it is far better to use harmless vegetable compounds than to dose to excess with quinine, calomel and other drugs. By treating the blood with Hood's Sarsaparilla scrofula, salt rheum and what are commonly called "humors," dyspepsia, catarrh, rheumatism, neuralgia, consumption and other troubles that originate in impurities of the blood or impaired circulation are all be cured.

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Father of Phenomenon—It's all very well, this society is, what looks after children for the prevention o' cruelty, but wot's a parent to do wot's got kids wot kin earn a 'spectable livin'? Look at me, for eggsample; if they stops my girl a sellin' flowers and de kid uv a boy from pedlin' papers wot'll become o' me? Why, I'll have to work!

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