

Balloon Has Practical Future, But Not as Airship

By HENRY HELM CLAYTON,
of Blue Hill Observatory.



THE spherical balloon is to the navigator of the air what the raft was to navigation of the water. It is the first crude beginning of the art. Could balloons be pushed along by poles or even driven slowly by motors of any kind, there is hardly a doubt but that slow, steady progress in navigating the air would have followed the invention of the balloon and great aerial ships would now traverse the air from city to city. But unfortunately, the moment a balloon is in the air it is ordinarily the sport of fierce aerial currents which sweep it along entirely beyond the control of man.

This circumstance has made progress dangerous and difficult; yet progress has been made, and numerous devices have been invented which have made the management of the balloon easier and safer. The invention of the elongated balloon and the adaptation of modern light motors for driving it through the air have made it possible in light winds to make short voyages to points chosen in advance and to return. But such balloons can barely stem the ordinary currents prevailing a few hundred yards above the earth, and in currents somewhat stronger are as much the sport of the winds as are the spherical balloons.

The well-known engineer, Octave Chanute, who has given this question much study, says that it is improbable that the balloon can ever be driven with a speed exceeding 40 miles an hour without bursting. Mr. Santos-Dumont, who has probably had a wider personal experience in driving elongated balloons than any one else, says that, in practice, when the balloon is in motion, the gas is forced back to the rear end of the balloon, and the pressure becomes so great that speeds of 20 to 30 miles can not be exceeded without danger of bursting the strongest material of which balloons can now be made.

Such facts render it improbable that the balloon will ever greatly exceed its present development, and students of the subject look forward to the evolution of the flying machine without gas for the future navigation of the air. But this is not denying a practical future for the balloon.

The spherical balloon is now frequently used for voyages of pleasure and recreation, and its usefulness will no doubt steadily increase for this purpose, as devices for handling it are improved.

The balloon has also proved a most useful method of exploring the air up to heights exceeding 10 miles by means of light recording instruments attached to unmanned balloons. This method of research has been widely used in Europe, and has recently been introduced into America by Mr. A. Lawrence Roth with great success. They have also been used by Mr. Hergesell for obtaining the temperature at great heights above the Atlantic ocean. In the latter case the balloon is followed by a steamer and recovered when it falls.

Other practical uses for the balloon are foreshadowed. Hence, I believe that the balloon has a practical future, but not as an airship, except in sport.

Henry Helm Clayton

A Big Bargain for 12 Cents Postpaid.
The year of 1900 was one of prodigious plenty on our seed farms. Never before did vegetable and farm seeds return such enormous yields.
Now we wish to gain 200,000 new customers this year and hence offer for 12c postpaid:
1 lb. Garden City Beet..... 10c
1 lb. Earliest Ripe Cabbage..... 10c
1 lb. Earliest Green Beans..... 10c
1 lb. La Crosse Market Lettuce..... 10c
1 lb. Day Radish..... 10c
1 lb. Blue Blood Tomato..... 10c
1 lb. Jucy Turnip..... 10c
1000 Earliest Flowering Sweet Peas..... 15c
Total..... \$1.00
All for 12c postpaid in order to introduce our warranted seeds, and if you will send me one package of Berliner Earliest Cauliflower, together with our mammoth plant survey stock vegetable and farm seed and tool catalog. This catalog is mailed free to all intending purchasers. Write today.
John A. Saiser Seed Co., Box W, La Crosse, Wis.

Long Sermons.
Mark Twain tells this story, the moral of which you may supply yourself. I went to church, and I was so impressed by what the preacher told me about the poor heathen that I was ready to give up a hundred dollars of my own money and even go out and borrow more to send to the heathen. But the minister preached too long, and my enthusiasm began to drop about \$25 a drop till there was nothing left for the poor heathen, and by the time he was through the collection was taken up I stole ten cents off the plate.—Southwestern's book.

Expect Contest Over Will.
A contest is expected over the will of Mrs. Isabelle Beecher Hooker, sister of Henry Ward Beecher. Mrs. Katherine Burton Powers of Brookline, Mass., granddaughter of Mrs. Hooker, is expected to contest the will. The bulk of the estate, which is estimated at about \$70,000, is given to the son of Mrs. Hooker, Dr. Edward B. Hooker of Hartford. Mrs. John C. Day of New York, daughter of Mrs. Hooker, receives "because," according to the will, "she and her daughter are so amply provided for by the estate of her late husband."

The Mugger's Attendants.
While clambering up I noticed what looked like the bulk of a ship, about 400 yards away, says a writer in the London Field. It turned out to be a monster crocodile; it must, without exaggeration, have been 27 or 28 feet long, and in its close vicinity were five or six small muggers, looking like a boy and a girl, and a man and a woman, an old Cawnpore resident that they actually eat as such, and give warning of any approaching danger to their overlord.

"Warfare" in Africa.
In the neighborhood of Lake Tshad, Africa, the other day, six negro troops, commanded by a corporal, armed with carbines, only successfully defended a little mud fort against 500 warlike Taugra, and when the Taugras gave up the attempt and retired, the troops sallied out and "pulsed" them.

MORE BOXES OF GOLD

And Many Greenbacks.

325 boxes of Gold and Greenbacks will be sent to persons who write the most interesting and truthful letters of experience on the following topics:
1. How have you been affected by coffee drinking and by changing from coffee to Postum.
2. Give name and account of one or more nervous drinkers who have been hurt by it and have been induced to quit and use Postum.
3. Do you know any one who has been driven away from Postum because it came to the table weak and characterless at the first trial?
4. Did you set such a person right regarding the easy way to make it clear, black, and with a snappy, rich taste?
5. Have you ever found a better way to make it than to use four heaping teaspoonfuls to the pint of water, let stand on stove until just boiling begins, and begin at that time when actual boiling starts, boil full 15 minutes more to extract the flavor and food value. (A piece of butter the size of a pea will prevent boiling over.)
The contest is confined to those who have used Postum prior to the date of this advertisement.
Be honest and truthful, don't write poetry or fanciful letters, just plain, truthful statements.
Contest will close June 1st, 1907, and no letters received after that date will be admitted. Examinations of letters will be made by three Judges, not members and best Postum Cereal Co., Ltd. Their decisions will be fair and final, and a neat little box containing a \$10 gold piece sent to each of the five writers of the most interesting letters. A box containing a \$5 gold piece to each of the 20 next best, a \$2 greenback to each of the 100 next best, and a \$1 greenback to each of the 200 next best, making cash prizes distributed to 225 persons.
Every writer of Postum is urged to write and each letter will be held in high esteem by the company, as an evidence of such friendship, while the little boxes of gold and envelopes of money will reach many modest writers whose plain and sensible letters contain the facts desired, although the sender may have but small faith in winning at the time of writing.
Talk this subject over with your friends and see how many among you can win prizes. It is a good, honest competition and in the best kind of a cause, and costs the competitors absolutely nothing.
Address your letter to the Postum Cereal Co., Ltd., Battle Creek, Mich., writing your own name and address clearly.

HEREDITY IS NOT ALL.

Physicians Now Believe Less in Transmission of Disease.
Medical men are coming round to the view that it is the personal history that is of primary importance, or, in other words that man, as a maker of his life, his record of health, and his circumstances should be more carefully considered than the illnesses that his ancestors died of. Dr. Babington, a medical examiner for insurance companies, who is well known in the profession which he adorns, and of high repute in the north of England, writes in a recent issue of this question of heredity from a life insurance point of view. In his opinion it is not so much disease that is transmitted from one generation to another, but organization, or "humanity," as he expresses it. Any member of the human family may suffer from any disease to which humanity is subject, and when an individual so suffers it is the cause of the disease that must be inquired into. Exposure to this or that set of conditions brings varying results. If the body is exposed to cold, it may be rather inclined to go out; if to another exposure; if to a third, cancer, and so on.

PREPARE THIS YOURSELF.

Tells How to Make the Best Blood Tonic at Home.

For those who have any form of blood disorders; who want new, rich blood and plenty of it, try this:
Fluid Extract Dandelion, one-half ounce; Compound Kargon, one ounce; Compound Syrup Sarsaparilla, three ounces.
Shake well in a bottle and take in teaspoonful doses after each meal and at bedtime. Any good pharmacy can supply the ingredients at small cost.
This is the prescription which was made up, is called "The Vegetable Treatment"; by others, the "Cyclone Blood Purifier." It acts gently and certainly does wonders for some people who are sick and run out of spirits, and is known to relieve serious, long-standing cases of rheumatism and chronic backache quickly.
Make some up and try it.

Admired Statesman's Status.

A German journalist visiting in Washington, himself a man of status, and a man of letters, rather inclined to look with something like contempt on the many undervalued statesmen he saw in the national legislature. But when Secretary Taft bowed down upon his knees and arms, and the president introduced and after a short chat the secretary departed. Just as he disappeared from the German's admiring gaze the towering form of Congressman Sulloway hove into view, and the German looked at the New Hampshire man long and earnestly. "Is he bigger than any man in his imperial majesty's Urban guards," said the foreigner in a tone of chagrin and indignation. "I shall write one whole letter about him."

Proof of Merit.

The proof of the merits of a plaster is the cures it effects, and the voluntary testimonials of those who have used Alcock's Plasters during the past sixty years is unimpeachable evidence of their superiority and should convince the most skeptical. Self-praise is no recommendation, but certificates from those who have used them are.
Alcock's are the original and genuine porous plasters and have never been surpassed by those who have sought to trade upon their reputation by making plasters with holes in them. Avoid substitutes as you would counterfeit money.

Inducement to Undertakers.

The following advertisement appeared in a paper of a small town in Colorado:
"For Sale—An old established, well paying undertaker's establishment. The city is in a very unhealthy location, where the mortality is very great. There is only one doctor in the whole town. The deaths from fever alone pay the expenses, and the rest is clear profit. There is no competition."—Judge.

FRANK J. CHENEY writes that he is sending his name to F. J. CHENEY & Co., Drug Business in the City of Toledo, Ohio, and has formed the habit of using the best of ONE HUNDRED DOLLAR for each and every case of CATARRH caused by the use of HALL'S CATARRH CURE.
FRANK J. CHENEY, writes to inform me and subscribe in my presence, this 10th day of December, A. W. GLEASON, Toledo, Ohio.
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SOME WIVES ARE DIFFERENT.

Quiet Cynicism, or Good Honest Row—Which is the Better?
"Most men," said the man of experience, "think it must be awfully nice to have a wife who takes things as coolly as Dave Potter's wife takes them; but others, more discriminating, prefer a good honest row to her style of quiet cynicism. The way she behaved the other day when she found a letter in her pocket from a girl is an example of her method."
"I don't see," wrote this girl, "how on earth I can ever live without you."
"Dave's wife read that gush, and a lot more just like it, without ever turning a hair."
"Well," she said, quietly, "that girl is a fool. If she knew you as well as I do she would be wondering how on earth she could ever live with you."
"And that, in the opinion of the discriminating few, cuts a whole lot deeper than a common, everyday rumpus."

CHILDREN TORTURED.

Girl Had Running Sores from Eczema—Was Tortured by Poison Oak—Both Cured by Cuticura.

"Last year, after having my little girl treated by a very prominent physician for an obstinate case of eczema, I resorted to the Cuticura Remedies, and was so well pleased with the almost instantaneous relief afforded that I discarded the physician's prescription and relied entirely on the Cuticura Soap, Cuticura Ointment, and Cuticura Pills. When we commenced with the Cuticura Remedies her feet and limbs were covered with running sores. In about six weeks we had her completely well, and there has been no recurrence of the trouble."
"In July of this year a little boy in our family poisoned his hands and arms with poison oak, and in twenty-four hours his hands and arms were a mass of torturing sores. We used only the Cuticura Remedies, washing his hands and arms with the Cuticura Soap, and anointing them with the Cuticura Ointment, and then gave him the Cuticura Resolvent. In about three weeks his hands and arms healed up, so we have him to thank for feeling grateful for the Cuticura Remedies. We find that the Cuticura Remedies are a valuable household standby, living as we do twelve miles from a doctor. Mrs. Leslie Vincent Thomas, Fairmont, Walden's Ridge, Tenn., Oct. 12, 1905."

The more a man wants to borrow the harder he shakes his hand.

WEAK, PALE, THIN

Dr. Williams' Pink Pills Restored Mrs. Robbins To Health and Also Cured Her Daughter of Anemia.
Mrs. Josie Robbins, of 1121 Clar St., Decatur, Ill., says: "I was weak, thin and troubled with headaches. My appetite failed so that I did not relish my food. I was unable to do my work because my limbs pained me so and my feet were swollen. I got thin and dirty, my tongue seemed at times to be paralyzed so that I couldn't speak distinctly. My extremities, when at the numb state, felt as if some one was sticking needles into me all over their surface. Through my shoulders at times I had such pain that I could not sleep. Many times I awoke with a smothering sensation. "When the physician's remedies failed to benefit me I began to look for something that would. My sister, Mrs. McDaniel, of Decatur, recommended Dr. Williams' Pink Pills to me and I at once purchased some. I was greatly encouraged when I saw how they acted on my nervous condition and continued using them until cured. I am now able to attend to my duties and have not consulted a physician since."

They gave them to my daughter who had always been weak and who at this time seemed to lack vitality. Her cheeks were colorless and she was thin and spiritless. She had anemia and we feared consumption, because every time she went out doors if it was at all cold or damp she would take cold and cough. But Dr. Williams' Pink Pills brought color back to her cheeks and strength to her body.
Dr. Williams' Pink Pills are sold by all druggists, or sent postpaid, on receipt of 25 cents. 60-cent per box, six boxes for \$2.50, by the Dr. Williams Medicine Co., Schenectady, N. Y.

A Positive CATARRH CURE

Ely's Cream Balm
In quickly absorbed. Gives Relief at Once. Cleans, soothes, heals and protects the diseased membrane. It cures Catarrh and drives away a Cold in the Head quickly. Restores the Senses. Treats Cuts and Small. Full size 50c, at Drug-ists or by mail; Full size 10c, by mail. Ely Brothers, 55 Warren Street, New York.

MOXON'S LINIMENT

The Best on Earth For Man or Beast
Trial bottles too by mail. MOXON'S LINIMENT CO., MT. CLEMENS, MICH.

Amazing Riches of United States

By L. G. POWERS,
Chief Statistician, Bureau of Census.

In various ways during the last few years the public press as well as our statesmen, economists and business men have been calling attention to the marvelous resources of this nation and the wonderful development of the same in the last half century. Nothing, however, has been written or spoken which sets forth that magnitude and growth more graphically than the estimates of national wealth recently published by the United States bureau of the census. Those estimates were for the years 1900 and 1904. For the former year they assign to continental United States—which is the United States exclusive of Alaska, Hawaii, Porto Rico and the Philippines—a valuation of \$88,517,306,775; for 1904 the estimate was \$107,104,211,917. The magnitude of this wealth may be measured by comparing it with that of a number of other countries.
For such comparisons the figures for 1900 must be employed, since the latest estimates of European national wealth—those of Mulhall—are for 1896. In that year the wealth of Great Britain was estimated as \$57,453,899,000 and of Russia as \$31,267,262,500. The total for the two was \$88,721,161,500, which is practically identical with the estimate for the United States in 1900. All known facts tell of greater wealth accumulated in the United States since the years mentioned than in the countries named.

Hence it is safe to assume that the wealth of the United States differs but little from that of Great Britain and Russia combined and is slightly in excess. In like manner the property of the United States at the present time is doubtless slightly in excess of the combined wealth of the richest nations of continental Europe—France, with an estimated valuation in 1896 of \$47,156,385,000, and Germany, with \$39,185,058,000—a total of \$86,341,443,000.

Every time the sun makes its daily course it finds this nation \$10,000,000 richer when its last rays linger at the golden gates of California than when they lighted up the granite hills of Maine.

The Boy Problem An Acute Issue

By BISHOP SAMUEL FALLOW.

The boy problem is the ever pressing problem of society. Between the ages of 12 and 18 years the average boy is a very uncertain quantity. It is a perilous period. The home is preeminently the place where not only the beginning, but the shaping, of life are to be determined. For every hour the average American boy is under school influence he is 11 hours under home influence. Clearly, then, the home should afford the best possible surroundings for the boy. Father and mother should be united in his training and never be at cross purposes. Home for him should be an early paradise, the most attractive spot on earth. Infinite patience, conjoined with firmness, should enter into the development of his character. Plenty of play should be welcomed. Love for God should ever be taught and exemplified. Disobedient children as a rule are the consequence of disobedient parents. Be true, then, yourselves to the laws of life, of home, of education and you may rest assured it will be well with the boy.

The foundation of pride is the wish to respect one's self, whatever others may think; the misapprehension of vanity is the craving for the admiration of others, no matter at what cost to one's self-respect.—F. Marion Crawford.
Garfield Tea, an absolutely pure and effective laxative! Made of Herbs. Take it to purify the blood, to overcome constipation, to eradicate rheumatism and chronic diseases.
Building Up Manila.
Manila is issuing building permits at the rate of from 10 to 25 a day, large and small.
You always get full value in Lewin's Hair Dressing. Beware of cheap imitations. Your dealer or Lewin's Factory, Peoria, Ill.
Minds of too many men are filled with useless knowledge.
FILES CURED IN 4 TO 12 DAYS.
PAIN PROMPTLY IN RELIEFED TO OVER 90% OF CASES BY THE USE OF FILES IN 10 TO 15 DAYS OF REMOVAL. No.
Soft people occasionally use hard words.

CASTORIA
For Infants and Children
In Use For Over Thirty Years
The Kind You Have Always Bought

RHEUMATISM CURED
The Circulation Stimulated and the Muscles and Joints lubricated by using
Sloan's Liniment
Price 25c 50c & \$1.00
Sold by all Dealers
Sloan's Treatise On the Horse Sent Free
Address Dr. Earl S. Sloan, Boston, Mass.

NO MORE MUSTARD PLASTERS TO BLISTER.
THE SCIENTIFIC AND MODERN EXTERNAL COUNTER-IRRITANT.
CAPISICUM VASELINE
EXTRACT OF THE CAYENNE PEPPER PLANT
A QUICK, SURE, SAFE AND ALWAYS READY CURE FOR PAIN—PRICE 10c PER TUBE. AT ALL DRUGGISTS AND DEALERS. ORDER BY MAIL ON RECEIPT OF 10c. IN POSTAGE STAMPS. DON'T WAIT TILL IT IS TOO LATE.
A substitute for and superior to mustard or any other plaster, and will not blister the most delicate skin. The pain-killing and curative qualities of the article are wonderful. It will stop the toothache at once, and relieve Headache and Sciatica. We recommend it as the best and safest external counter-irritant known, also as an external remedy for pains in the chest and stomach and all Rheumatic, Neuralgic and Costic complaints. A trial will prove what we claim for it, and it will be found to be invaluable to the household and for children. Once used no family will be without it. Many people say "it is the best of all your preparations." Accept no preparation unless the name carries our label, and our guarantee is not genuine. SEND YOUR ADDRESS AND WE WILL MAIL OUR VASELINE PAMPHLET WHICH WILL INTEREST YOU.
CHESEBROUGH MFG. CO.
17 STATE STREET, NEW YORK CITY