RA Winged Airship. 30

While M. Santos-Dumont, the Bra- | tired wheels under her I can run 50 | bird soars in the air so pure, so clear Paris, Gustave Whitehead, a amized road. Connecticut inventor, is bidding for was half a mile at an elevation of 50 feet from the ground. The airship is ballast. Each bag weighed 110 pounds. certainly a queer looking bird. It acts along the ground at 39 miles an hour.



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GUSTAVE WHITEHEAD.

make sure he is carrying enough accident insurance, pull a throttle, and But I saw with considerable apprenenhold fast while the machine opens its sion that I was headed straight for a cago Chronicle. wings, flaps them, and darts upward, clump of trees. I was not high enough says the Boston Journal.

Mr. Whitehead lives at Bridgeport, the steering apparatus to work just Conn. He has been an assistant to then. In fact, I had not had occasion vertisement has not, of course, restitution and of Prof. Andree. He was assisted in his invention by W. D. Custend of Waco, Tex. Andrew Cellie and James Dickie are his financial backers.

While Mr. Whitehead has demonstrated that his airship can fly, he does not claim that it can be made a commercial success. On the other hand, Inventor Custead claims he has an airship which can be made valuable for business purposes. Custead claims to have the most feasible form of airship, but he lacks a generator that is sufficiently light. By a combination of Custead's airship and Whitehead's generator the inventors believe that the best airship yet devised will re-

This new generator promises great things if the claims of the inventor are gled. He says it is capable of producing enormous power. Whitehead

Whitehead's flying machine is about straight line horse-power, used to work the pro- my slightest movement. pellers in flying. Mr. Whitehead says:

How He Flies Through Air.

silian, is repairing his dirigibale bal- miles an hour on the ordinary macad- so lonely.

"We arrived at the flying ground aeronautical honors with an airship about 2 o'clock in the morning. There with wings that soars like a bird. Mr. was a fair moon and we could see well Whitehead has made several experi- enough to unfold the wings and get the mental trips, it is claimed, with a cer- machine in shape for the trial. I setain amount of success and without an lected a long stretch of fields sloping accident. His longest flight up to date slightly to the north. First I tried the machine with two bags of sand in for

"About 4 o'clock, as the sun was beas strangely as it looks. It can run ginning to show itself in the east, I got ready to take my first fly in the and when the operator wants to travel machine. I was a little nervous, I adthrough the air all he has to do is to mit, but I felt eager to fly. I felt sure that my machine would not fall me. I took out the bags of ballast. Then we tide two ropes to the under part of the machine for my two assistants to hold fast to and not let the machine get away from them. When everything was ready I took my position in the machine and turned the power into the deck engine.

> "The machine started ahead nicely, and when she had gained sufficient momentum I shut off the power in the deck engine and started the propeller made considerable noise, too.

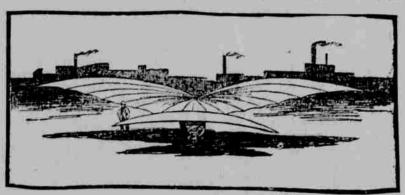
> Clump of Trees Avoided. to sail over them, and I couldn't get

It is the one stainless element of the world. I know now why birds sing. It is because they fly, and to fly is a divine intoxication, an exaltation of every sense. Racing they call the sport of kings. Well, if that be so I can only say of flying that it is the sport of the gods. Have not the angels wings? Now you can understand how I feel when half a mile above fair. glittering Paris. I am enjoying one of the pleasures of paradise. What a supreme joy it will be to go around the world in the air-to pass over all the nations, to look upon cities to laugh at the waters impotent to harm one, to share with the homing pigeon, the eagle and the swallow the sovereign delight of the universe! And I will do it too. I will go round the earth. It was my boyhood's dream in Rio de Janeiro. T first imagined the journey in the tropics. Here in the north, if God is good, I will make its realization possible.

Ten years ago where were the motors that are going by us? De Dion engine. As soon as the wings began and Mors and Panhard had all their to flop, her nose raised in the air. I fame to earn. Where a generation ago was considerably lighter than the two were a thousand and one accomplishbags of ballast, and the machine rose ed and necessary facts of today? As faster. There was a terrific humming these things were then, so are of the wind through the wings and aeronautics now. Believe me, before other parts of canvas, and the engine I am gray you will see fleets of aerial yachts beating out toward golden sunsets, squadrons of pleasure craft in the "I was now about forty feet above sky, and, it may be, huge battleships the ground and sailing along evenly. will throw their somber shadows upon the earth.-M. Santos Dumont in Chi-

Early Advertisement.

The discovery of the primeval ad-



REAR VIEW OF THE SHIP.

to try it before. To hit those trees | warded our research. For we have meant wrecking the machine and per- not access to the strata wherein we

lin. These wings are 36 feet from tip trees like a swallow. I had no need to tip. There is also a steering ap- for steering apparatus now, and I felt paratus. There are two engines, one more secure. I tried steering by shiftof 10 horse-power, to run the machine ing my weight from side to side, and along the ground, and the other of 20 the machine proved most sensitive to

"I had gone fully half a mile now, and ahead of me about 200 yards the

haps death or broken bones for me. might at least dig for its remains. The A man thinks fast when he gets into a earliest of any kind which we have place like that. When I was within been able to unearth occurs in a Ridclaims that his motor will decrease by fifty yards of the trees, and my assist- er's Dairy for 1736, which possibly be-75 per cent the weight of any motor ants below on the ground were yelling longed to the newspaper collector. It at present in use. The complete motive power, including generator and for the trees, it suddenly came into its own spelling and punctuation: engine, will weigh about five pounds my mind that I had seen the birds in "Artifical Teeth, set in so firm, as to the thongs from Capt. Blake's impato the horse-power. This includes fuel their flight tip one wing lower than eat with them, and so Exact, as not to tient men, and gave them the liberty the other when turning out of a be distinguished from natural; they of action. And each man pressed for-16 feet long and its general appearance is that of a huge bat. From each side of the body there are wings made of bamboo poles and covered with muslin. These wings are 36 feet from tip and put in by the Person that uses the redoubt. them at Pleasure, and are an ornaare the advertisements of losses of money and property through footpads whether it be "a lusty young fellow who wore his own hair" or "a pock fretten man in a pair of everlasting Breeches," or on Wimbledon Common 'a tall man in a blue Frock and a light Bob wig on a bay Horse with a Swish tail and look'd like a genteel galop-

> Platinum Is Becoming Scarce. The scarcity of platinum is beginning to cause some concern among the electrical manufacturers of the country. For about five years the price of this valuable metal has steadily risen until today it is listed at a higher price than ever since its discovery and every indication points to still higher prices. Platinum is now quoted at about \$36 an ounce, about twice the quotation of gold, while five years ago it sold as low as \$5 an ounce. Since the flooding of the platinum mines in the Transvaal, which occurred after the breaking out of the Boer war, manufacturers have had to rely on Siberia for their supply of the valuable metal.

ping hunter."-The Bookman.

Renovating Old Cars.

A car-refitting company in New York city buys old Pullman coaches tears the inside furnishings out and refits them according to the wishes of vate car a man may wish he may order-parlors, handsomely carpeted, sitting-rooms, dining-rooms, sleeping compartments, smoking-rooms - all with equipment more or less perfect, according to the price. And cars are refitted in this way and sold for prices varying from \$1,500 to \$15,000. Very handsome and serviceable cars have been built from the old "castaways," and the man of moderate means can travel privately and comfortably in a home of his own.

Water Two Miles Deep. If the surface of the globe were

The fies that interrupts the dog that when soing at such a rate of speed. I time. Did past time ever know a thrill its men—robbing the creature from comparable to that I feel soaring as a which it sucks its blood.



A heart is lost in the game of golf! Cupid has taken charge of the green, And hazards are frequent, nigh and off, With a stymic constantly between.

The victim studies his charmer's play, Follows her course with an anxious eye. Hoping she'll land in the self-same way, Making the game a like-as-we-lie.

The parson's niblick would help them then,
For to the altar the course would be,
And when the game would begin again
A wedding-ring would serve as the tee.

As single players no more arrayed Against each other, but man and wife. Their future would be a series played of foursomes upon the links of life.

-F. W. W.



Between Heart and Bayonet.

BY JAMES NOEL JOHNSON. (Copyright, 1901, by Daily Story Pub. Co.) other.

"Boys," cried the Colonel, dashing

up, "do you see that redoubt?" The Colonel paused but a second. He had spoken with the air of one who is granting a favor rather than delivering a command.

Capt. Blake and Lieut. Summers anechoed from every lip in their com-

A single impulse throbbed in each heart simultaneously, and the leap of one foot was the movement of all. Until now the company had stood, all their arteries conduits of burning flame. Their faces gave evidence of the repressive struggle within them.

They had cast sullen, envious eyes on other ranks of men that, loosed from restraint, were hurrying, like glad streams, into the sea of action.

Oh, the sickening agony, the soul neuralgia of the brave soldier who is compelled for a time to become the passive objector of roaring conflict! The wild shouts of his brother troop-

ers in action ring in his ears, firing his enthusiasm, but his feet are chained o the ground. All around him and through him

runs the thrill of battle. His nerves are leaping and vibrating like strings swept by heroic melodies, but he is chained to passivity.

Ever and anon a shot strikes into the human wall. A man detached drops and lies on the ground. There is reproach in the fading eyes, for the man had been shot as he stood as helpless

About the mouths of the great guns ment to the Mouth, and greatly helpful | was blown the foaming clouds of death. to the Speech; Also Teeth clean'd and The redoubt seemed a great monster drawn by John Watts. * * * Rac- Idol, belching flame and destruction to quet Court, Fleet Street." Many also the feet of which hundreds of human sacrifices were already being cast.

Capt. Blake and Lieut. Summers charged in front of their exultant troopers, their swords lifted in glittering menace. They had no need to cheer on their men. To keep free and ahead of the exultant rush was all the officers needed to do.

Each of the two officers knew that, in that sublimed moment, his mind was 'n many things the reflex of the oth-

images in their respective minds



Each saw her in the scene.

were flying as swiftly as the missiles of death that both worshiped with the frenzy of idolatry.

Above that instinctive purpose of each man saw laurels, blood red, he expected to clasp and carry away to of Christine Egglestone.

She was at home each saw her in the same anxious attitude, at the doorway, a soft hand coning her eyes, gazing toward the south. The men rushed, shoulder to shoulder, but at which was she gazing most anxiously? Neither could tell-each had his hope and his fear. But the uncertainty of it all flew through the soul of each like a sword. Each officer had a clear premonition

that but one of the two would escape that cauldron of death. Blacker grew the clouds, and the peals of thunder fused into a continuripe fruit from a shaken tree. Shouts of exultation often dropped into dying groans. Still unharmed, side by side. the rival officers fought, the same imputses moving their bodies, the same



Drove his shoulder like a glut.

mind was engaged with the same thoughts and images, he couldn't resist the belief that the other held a dark purpose in addition unworthy of himself, but to be expected in the

They were enemies, of course. In self-defense they couldn't wish each other well.

"He'd rather die than lose Christine. He'd see me die with secret joy. I believe he would kill me if he knew he would never be suspected. I am too swered with an exultant shout that magnaminous. I am too chivalrous to place where the flow is normal, in an nourish such a thought respecting him, extremely short period of time the but I am sure he would kill me if he bottle will fill with sediment. Stretch could. I'll be between twin perils a net across the river, a net so finely throughout this action." This horri- woven that nothing but the pure wable suspicion flew through the jealous | ter of the river can pass through, and mind of Capt. Blake, and, with refer- on account of the rapidity of the flow ence to the Captain, it sped on through the jealous heart of Lieut. Summers.

Each, in his present morbid state, furious with two passions, wrongly felt | Experts have admitted this. This the other would connive at his death! Now the men are in the very teeth of the awful monster. Great mouths open and spurt out tearing missiles of death. All sounds, small and tremendous, run together in a continuous roar that becomes half silence. All passions are reduced to one primal, elemental desire-the lust of slaughter. This is the pressing, omnivorous instinct, From the rim of that vortex, hope, love, despair, fear, all fly like feeble wisps of vapor. Through plunging arm; through pressing foil; through pointed eyes; through lifted lip; through singing nostril, but one feeling surgesthe lust of slaughter.

Lieut. Summers is at the side of his rival, and both fight with that cool resolution and tremendous execution of fearless men exalted by a dual purpose. Suddenly, without experiencing any distinct pain. Lieut, Summers felt the strength flow from his great arms. Outstretched, their weight overbalanced him, and he dropped forward. Bells sang in his ears a moment, but by om- lustration of what might be done on nipotent will force he struggled to his an abandoned farm by a man who all-fours, and then gained his feet by knew his business, says the Boston the assistance of Capt. Blake. A feeble Transcript. Such a farm has been thread of smoke was then seen crawling from his coat a little below the town of Paxton, about seven miles

"My laurels for my grave!" he grimly thought, and smiled.

The next instant a dim, straight object came plunging down through the smoke, spearing toward the heart of Capt. Blake. In the snarl of the crowd and jam, he had no power to avoid it, had he known it was coming. Would neither brave man go back with lau-

Instantly Lieut. Summers, with the last spurting energy of a dying flame. drove his shoulder, like a glut, between the bayonet and its intended sheath. Now the death-dealing monster had blown its last breath. The great guns died in sudden silence, and above the echoes arose the lusty shout of vic-

Lieut, Summers saw laurels through fading eyes. A great, strong hero, his from land that probably did not cost grimy face streaked with tears, bent over him.

"Forgive me!" he hegan

"Oh, don't mention that," spoke the dving man. "Forgive me for my unworthy suspicion. Now, go home with laurels-yours and mine. Take them all to-to her."

Keep Them Interested.

Keep your children busy if you would have them happy. When the occupation is some dally labor which has been wisely allotted, see that it is accomplished as well as it is possible for the child to accomplish it under existing circumstances. But whether it be in work or play, let him understand that no matter how well he may have done today-and do not be chary of your praise-he has within himself that which will make it possible for him to do still better tomorrow. This treatment, instead of New York, 35,000 never think of going discouraging, £ays Woman's Hom€ Companion, will encourage by incitshattering the monster on the hill, ing the child toward even better work, ter. The other 5,000, hopeful and and will early implant that spirit of imaginative, with nothing better to divine discortent which allows of no do take a chance at it any way, and be proudly placed at the beautiful feet absolute satisfaction in that which has been accomplished until the The highest authorities among bay achievement reaches perfection. This is the discontent which Emerson preaches, and which is holy if doubt is not allowed to creep in to mar the that they take a day or two off for aspiration.

The Oldest French Immortal. Legouve, the oldest of the French immortals, is 94 and is still industrious probably in deference to his famous saying: "It is often said that God condemned man to work. This is absurd. God condemned man to live and ous roar. Vague lightning played gave him work as a mitigating circumthrough the wall. Men dropped like stance."

THE MISSISSIPPI RIVER

Queer Frenks of the Current Which is Easily Deflected. "I have been much impressed with

the importance of small things in late years," said an old steamboat man to a New Orleans Times-Democrat reporter, "and the Mississippi river has furnished me with rather good examples. I can understand now why Caesar looked out upon the Nile in such curious amazement and offered all that he stood for to the Egyptian priest if he would show him the source of that wonderful river. But the antics of the Nile look like insignificant nothings to me when compared with the strange conduct of the stream that cozes out of the earth at Itasca and hurries on its murky and devious way toward the Gulf of Mexico. Towns along the Mississippi that once stood right on the brink of the river have been isolated even in my day, and there are, too, all along the course of the stream little empires in view where the river has encroached upon small centers of population, finally eating the earth away and forcing the inhabitants to seek other quarters. There are hundreds of these places that are almost forgotten now, even by the men who are constantly on the river. What brings about these violent changes along the banks of the river? Not floods. It is just the ordinary doings of the stream. In the first place the current of the Mississippi is wonderfully swift, and the sediment deposited at any point where resistance to the flow is offered is very great. Tie a string to the neck of a bottle and sink it with the mouth of the bottle up and open. If held in one and the greatness of the deposit of sediment, almost in a twinkling the river would be dammed at that point brings me to the point of my narrative. The flow of current is frequently interfered with by sunken boats, perhaps by a jackstaff sticking up above the surface. The current is diverted by degrees, generally touching the far side of the stream, a mile from the point where it again meets resistance and immediately begins the building of a sandbar. I have seen a thousand examples of this sort during my career on the river, and I have known of instances where the root of a tree or the mere twig of a willow have brought about similar conditions. These things have tended to make a riddle out of the river, yet the stream. after awhile, will be handled so as to undo all that it has accomplished." BRAINS BEAT MUSCLE.

What a Scientific Farmer Did with Worn Out Land.

A little over a year ago we made some extended comment upon an ilfrom Worcester, and away from the railroad by a Long Island man, who brought with him a thorough knowledge of truck farming. His success the first year does not seem to have been exceptional. We have heard a great deal about the smallness of the potato crop this year, and undoubtedly the conditions have been less favorable than usual, but our Paxton farmer put thirty-seven acres into the tubers, from which he expects to produce a crop of some 4,500 bushels, or from 125 to 150 bushels to the acre. In fact, he has now for some time been sending potatoes to Worcester, the nearest large town, and receiving from \$4.50 to \$5 a barrel. Even at the lowest yield mentioned this will stand him in a return of over \$200 an acre him a twentieth part of that sum. Of course, there is a considerable debt account, but allowing for all that the profits are fat. Farmers in his neighborhood are beginning to think that their troubles are not entirely due to worn-out land and generally changed conditions. The fact that they do not know how to make the most of what they have had something to do with

FISH FLEE FROM THUNDER.

Seek Refuge From Storm in Deep Water Away From Coast. Fishermen along the Atlantic, coast

know the peculiar effect of thunderstorms on fish, and save themselves unnecessary work because they do know it. Of the army of 40,000 fishermen that occasionally or regularly wet lines in the waters contingous to afishing after two or three days of thunder and lightning. They know betcome home with fisherman's luck. men say that thunder drives the fish into deep water off shore and that vivid lightning so disturbs their sleep rest and recuperation. Thus it happens that on the third day after a hard storm with fulmination and pyrotechnics, the catch is phenomenal, whereas on the first or second day after there is no sport except sailing o'er

For the picture of health -a good

a ground swell.

the bounding billows or greating on

noth-"When I want to fly I start the deck open field ended with a big woods. I sent engine and gain a sufficient momen- prepared to descend. Here is where I AGO. \$3.00 t and old at on has buglas than se his \$3.50 ndard at the money \$3.50

FRONT VIEW OF MACHINE.

ends. At the stern there is a contriv- wheels struck the earth. ance similar to a bird's tail. This is intended for regulating the ascent or descent of the machine.

The present machine weighs about ing for the ribs, and for the wings use four and five pounds per horse-power." silk instead of muslin.

"Last Tuesday night I selected as the time to fly my machine. I had tried her three times before with ballast in her and she worked all right, so I felt confident that I could fly in ber.

Tells of His Aerial Trip. "With one of my assistants in the machine with me, and the other one and the newspaper representative following on bicycles, I started the machine from the house out the Pairfield the wheels under her are only board

tum on the ground and then turn the beame apprehensive again, for many poor ito the upper engine, which machines at the point where the wings runs the propellers or wings. As soon are stopped do not settle horizontally, the big wings, which measure 36 but dive ahead or fall tail downward feet from tip to tip, begin to move, the to the ground. I shut off power by demachine rises in the air at an angle grees, and the machine settled slowly of about six degrees. The machine is on a perfectly horizontal plane to the 16 feet in length and tapers to both ground, scarcely jarring me when the

"The best that has been done in the past in getting motive power has been seven and eight pounds to the horsepower. This means so much weight 300 pounds. It is rough, and when I that it is impossible for the machine build my new one it will weigh many to fly. My entire motor power, which pounds lighter than this one. Instead includes two engines, the generator its customers. Whatever kind of priof using bamboo poles for the ribs, as and 20 pounds of calcium carbide for I have done in this one, I shall in my fuel, which amount is sufficient for 20 new machine use seamless steel tub- hours of flight, weighs only between

BID FOR THE SKY KINGDOM.

Dumont Wishes to be a Magellan of the Air.

I wish to be the Magellan of the air—the first circumnavigator of the globe independent of earth and water. I would rather do that than anything else I can conceive. Kingdoms and victories and gold would be nothing beside the glory of that deed. I am told that it is a mad dream, that it is Road for the flying place. Along the folly. I do not think so. Given a perfectly level, water would cover it good pieces of road I speeded the ma- start, a science is developed at racing to the depth of two miles. hine up to 20 miles an hour, but as speed in this age of ours, so full of excitements, of romance, of innumerable wheels and but a foot in diameter, the interests. I cannot endure the man or is chasing the rabbit, is like the cor-