DESERET EVENING NEWS: SATURDAY, OCTOBER 27, 1900.

THE AGE OF THE AUTOMOBILE

much attention as the autom Primarily intended only to affor speedy, comfortable means of locontation, the use of the horseless call sion until at the present time, its employment as a pleasure vehicle is most subordinated to its application 1 other purposes. The automobile ha entered the fields of business, of sporand of war. The automobile motor. ted to a business vehicle, has proved its usefulness in the streets of our lar ger cities, wherein the horseless fire en gine, ambulance and patrol wagon ar also daily becoming more familiar. Its many advantages for these purposes scarcely need enumeration, economy cl operation and cleanliness heading the list. At present the first cost of the automobile is somewhat too high to admit of its universal adoption, and, be sides, in the hands of a careless or inexperienced user it is too liable to be dangerous. These objections bld fair to be eliminated in the near future by improvements in the automobile itself When this shall be accomplished, th horseless age will almost be here, and the service of man's old time servant and friend as a factor in the business world will be relegated to the background.

Modern warfare, with its customary greediness, has claimed the automobile for its own. Nothing else is attracting so much attention in European military circles, and our own war department is walting and watching sharply for de velopments, besides experimenting for itself. The possibilities of the horseless carriage are illimitable, and its availability and efficiency need no demonstration. In actual warfare, for transportation purposes, the uses of the automobile would be manifold, while self moving gun carriages for destroying life and automobile ambulances for saving it suggest themselves immediately. In this, as in all other automobile matters, the French have taken the active lead, and if continental Europe again becomes a battlefield the French automobile will prove a very important factor, The advantages of the automobile over the horse are too many to be enumerated. There are a few drawbacks to its exclusive use, the most serious of these being its liability to get out of order. but improvements will remedy that shortcoming and all of the others.

In France experiments with military automobiles have been carried on since 1897, and the machines have amply justified their adoption. The case and ra-pidity with which the French generals have been enabled to move from place to place without fatigue while conducting maneuvers or sham battles have delighted them, and they are enthusiastic in their praise of the automobile During the 1898 maneuvers General Jamont, one of the leading French com manders, found that he could easily cover 50 miles in one day and see for

which would be impossible under the old system of horse transport without an impracticably large number of tion, the use of the horseless calridge an impiraticably large number of has been subjected to constant extra- horses. This is the field in which mill tary automobiles will find their greatest usefulness, for they are admirably suffed to the needs of this branch of the service and are immeasurably superior to horse drawn wagons for most DUTDOS@S.

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MONG the recent inventions de-signed for utility, pleasure or comfort none has attracted so a distance of 129 kilometers in one day, African rivers that are filled with cata- ous doubt. The United States army a range of 180 degrees right and left.

The gun, with its carriage, can travel the United States leads the world in 35 miles an hour on fine roads, and it automobile affairs, as in so many othcan make proportionately good time ers. This is due, no doubt, to the enacross country or on poor roads. Eu- thusiastic reports of our Sunday paropean countries have likewise been pers. Though "automobilism" is mak-

There is a general impression that



JOHN JACOB ASTOR AND HIS RACING AUTOMOBILE

> ing rapid strides here, and American ngenuity may confidently be trusted to overcome the lead of other countries, at factured by American makers can esspresent we are still near the tail end of ity be persuaded that it is in sight For he procession. From statistics gathered from all civilized countries a short time ago it appears that almost all of them hold within their bounds many more automobiles than this country. faithful horse. The cause, or, rather, the chief cause, is the execrable condition of so many f our country roads. In comparison with the splendid highways of Europe. with the mud streaks of China. Such make the shows fully reflect the pregrace to America, but the efforts now making toward its alleviation will go far to make the automobile a familiar sight even in our smallest villages. During the past year, figures for which

are not yet available. American manufacturers have been turning out autobiles at a great rate, so that when relable statistics are again gathered the

United States will probably be found to

have overhauled most of its European

were hair raising. Some French automobilist is now expected to climb the Alps in the attempt to surpass Mr. Walker's record.

Automobile sport has naturally taken the form of racing. The speeding of the horseless carriage is not unattent. ed with danger, for a gasoline engine or an electric motor pushed in its highest capacity is neither nor a pleasant thing to tride with tomobile racing will never probably become a popular sport in t that the mass of the people will parily pate therein, for it requires my skill, money and attention. millionaties have taken it up, an eraze, particularly in spreading. William K. Vanderblir ne of the wealthiest scient of touse, is one of the leading peof the sport and attends to the leaning, oiling and driving 1 hine himself. The French are a lastic over the races, and to be a leging "chauffeur," as they call the e ductor of a horseless carriage is o ambition of every French sport The machines principally used those supplied with gasaline more which have been found to produce p highest rate of speed. The piston driven by the successive explosions minute quantities of gasoline, and th heat the cylinder to a very high de gree. Unless the cylinder be cooled of it soon becomes too het for use, and is cool it the automobile must carry tank of water. The water is kept culating around the cylinder and plates to keep the temperature sufficiently

Another interesting feature of the racing machine is the carrying of an extra man for ballast. Of course, automobile intended for racing is male as light as is, consistent with safery but this lightness adds an addition element of danger. On the turns, when going at high speed, the machine has a tendency to upset, and this is officet by the balancing of the additional man The speed attained is often very high but will doubtless be considerably surpassed in the near future,

There are several varieties of auto. mobile motors, electricity, steam, gamline and oil all being used to generity power. Each of them has its advanages and its drawbacks. The problem is to secure a motor that will be at once simple, easily understood, light la weight and inexpensive to operate. Ev. ery variety combines some of these de. siderata, while some of the newest models closely approximate the ideal. Research and experimentation are working wonders with the horseless carriage, as they did with the bloycle, and, although the end has not been reached, one who sees the elegant aptomobile pleasure turnouts now manusome years the automobile has been the butt of jokes wherein it is represented as breaking down miles from a repair shop and being hauled home by the

At the national automobile show is he held in New York in November every variety of horseless carriage will be shown. Full representation by all nost of our roads deserve classification makers is expected, and the plan is to a condition is in itself a standing dis- ent conditions of automobilism in the CHARLES N. LURIE. country.



The fourth annual lion hunt of the

Western Slope Hunting association has



Not alone in France have the military | racts and rapids. To see the automohimself the exact disposition of his advantages of the automobile been seen bile doing good service in cental Afri-troops, a feat impossible on horseback. and taken advantage of. All the other ca, half a century ago sunk in blackest During the September maneuvers this European nations are keenly alive to barbarism, is indeed an evidence of year better results have been obtained. the fact that an increased efficiency of progress.

This year, also, autotrucks were used transport means an enormous increas for the transportation of food, ammuniin the effectiveness of an army, and artist, who recently saw in his mind's tion and supplies and proved to be bril-iney are devoting much thought to the eye a regiment of automobiles charging liant successes. The saving in cost and subject. Germany follows close in the down hill in lieu of cavalry, will probin other respects over horse transport footsteps of France in military matters, ably never be realized, automobiles are is estimated at 30 per cent. Several save when she is in the lead herself, being extensively adopted in another models of automobile trucks were used, and the pet of the German emperor branch of military service. Self proamong them the Scotte, the Dion-Bou- and people-the army-is well provided pelling gun carriages are an assured ton, which hauls other wagons, besides with military automobiles.

carrying supplies itself, and the Die- Italy, Russia, Austria and Belgium der to "Limber up the guns!" Some of these were made up are not far behind in the race, and the milliar to students of civil war history, trich. into trains and attained an average last named country has introduced the will be changed to "Steam up!" of speed of six to seven kilometers (about | horseless wagon into the Kongo. There | "Put on the current!" While further

KIAL AUTOMO

Paris to Korostysheff, a distance of cessors, Daedelus and Icarus.

1,800 miles; on the other, the contest for One thing has been settled by the ex-

the Deutsch prize, offered for the dirigi- periments of M. Santos-Dumont, and

Aero club grounds in the Bois de Bous plane, which was a creation with great

logne and, after sailing around the Eif- wings, huge and bulky. Such hero-

fel tower, return to the point of depar- nauts as Professor Langley of the

ture in less than half an hour. Close Smithsonian institution at Washington

of Count von Zeppelin's success, Oct. 17, been working toward the development

when his great airship ascended nearly of the acroplane or acrodrome-au the

2,000 feet, tacked, steered against the former's machine is called-but, while

wind and made a safe descent, after he- each has been able to record that this

ing under full control more than an invention could raise itself in the air

The longest balloon trip up to the ure of success was attained at all com-

year 1836 was that accomplished by Mr. parable to that achieved by the Brazil-

miles; but in 1859 the American bal- In the latest, and what will probably

loonist, Mr. John Wise, with two com- be the best, form of airship adopted.

panions, salled from St. Louis to Hens the balloon idea is still retained-that

derson, N. Y .- 1.150 miles-in about 20 is, a gas filled vessel as a means of sus-

hours-at a speed of nearly a mile a pension in the air-but with the addi-

America held the honors for long dis- to it. The shape of the gas bag is mod

tance ballooning, being now in second ified, however, and is either cylindrical

place only and in the first class for or clgar shaped, this being the form

speed, for the same year that Mr. Wise adopted by Santos-Dumont, by Count

made his long flight Mr. Lowe covered von Zeppelin, whose giant airship mad

a distance of 100 miles in about four such good records in July and October hours—at a speed of 75 miles per hour, of this year at Lake Constance, and by

the Centaure making an average of the German government for its war

It was established by the Montgolfiers The eigar shaped or cylindrical bal-

in 1783 that a bailoon could be sent to loon, then, is the accepted type of the

a great height by inflation merely with future, it having been proved manage

hot air, but until quite recently it has able and comparatively safe. M. San-

not been possible for man to steer or tos-Dumont has succeeded in producing

direct his airship at will, either with or three and one-half horsepower and a against the winds. The desideratum, speed of 20 miles an hour, it is claimed,

has been a dirigible or steerable air- with his gasoline motor, weighing only

ship, and until last year this "long felt 50 pounds, which is the best combina-

when M. Santos-Dumont, Brazilian Little can be added to what has al-born, who had received his education ready been written to further elucidate

in Paris, made his first successful ven- the structural features and working

ture in November, sailing at will scheme of this airship, which the ac-around the Eiffel tower and far above companying Illustrations so amply

the city of Paris, it was recognized that demonstrate. The inventor and his an man was no longer to be dependent up- ship have been familiar objects to Pr

on the caprices of the wind-to be cars risians and visitors to the expositi

FACTS NOT GENERALLY KNOWN.

We use 2,000,000 pounds of camphor ! German cilles the German exhibit at

ried hither and thither as they moved- during the past summer, and thousands

had not been supplied. But tion that has as yet been effected.

balloon.

So for more than 40 years tion of a motor for propulsion attached

Green, an Englishman who covered 500 lian's.

minute.

'mant'

Bnnually

PERSON SUFFEREN

in England

Faris

only 38 or 37 miles an hour.

and even make a short ilight, no mean-

supon the heels of this comes the report and Maxim, the great inventor.

ble airship that shall start from the that is the fate of the so called nero

ugh the dream of the Ameri feature of future warfare, and the or-

NOW

A MILE-A-MINUTE MACHINE.



vas given of its capabilities,

Since that experimental flight M. San- automobile hears to an auto-omnibus. s-Dumont has projected a larger air. it is interesting to note that the very mated at not over 25 during a hundred and snow which begins to fall late in October. In their descent the monrudder of more durable material than beings in a balloon occurred from nearthe first, which was the cause of an ac- ly the same point as that chosen by the lcan civil war and in the Franco-Ger- elk, antelope and other game that may cident while in the air. As shown in latest aeronaut, two Frenchmen start- man war, especially by the beleaguered cross their path, and when the plateau

THE era of ballooning, which was in augurated 117 years ago, comes to a triumphant conclusion, it with some reservations, for all the ob-salling commences. The recent news stalling commences. The recent news from Europe confirms this interest to perfect actual navigation in the station of from Europe confirms this impression. on the sun and the winds may yet have most wonderful ever performed by a vast bulk of the cylindrical balloon, so naulteal experiments. Frenchmen sent the one hand chronicling the longest as great sport with the venturesome vehicle guided through the air by hu-balloon journey yet accomplished in the aeronauts as in the days of fable they man agency, was that horizontal dr-will have to be enlarged carrying ca-writing they are still in the van, though successful voyage of the Centaure from are said to have had, with their prede- cult, thrice repeated, around the Effel pacity for the practical airship of there is a generous rivalry for leader- for the guidance and propulsion of bal- winter. They will explore the coustry

shin between aeronauts of different nationalities. In the first successful attempt to only for vertical motions."

cross the English channel by balloon, which took place in 1785, one of the two passengers was a Frenchman-M.

while endeavoring to keep his flery mount from running away with him wer, when a practical demonstration iransit, of course, but this one bears person to be killed, but the list of fatal the same relation to that as a racing accidents from ballooning is compara- begin to climb down from the mountain

The use of balloons during the Amer-

loons, not one has proved available, for a radius of 25 miles, shooting a

tials of electricity and steam were un- auxiliary force, the ranchers in known, and, while the latter two have neighborhood have also been invited the atmosphere is still, in more than a termination of their natural enemie again, while acrostatics as a science can make a profit by selling the pens has lain dormant or been neglected There will be about 500 people in the during the past hundred years or so, hunt. They will be divided into di its rivals in the art of locomotion- sions of 50 each, with a captain in con steam and electricity-having in the mand and a guide, also the usua factors in its development.

an adaptation of the automobile or self to haul back the dead benats. At night propelling vehicle which of late has so each division will subdivide and captivated the fancy of men of wealth, "camp" at the various ranches, Beat as well as of scientists-that is, it will be and lion stories will be in order, mainly dependent for its motive power course. On the third day the various upon some form of energy-electric, divisions will return to Debeque, where steam or gaseous-which the rage for there will be a barbecue, horse and bur stage approaching perfection.

The difficulty which all aeronauts Blanchard-and the other an American fording a vehicle for flotation, like the predatory beasts, so as to be sure of his -Dr. John Jeffries of Boston. Elan-chard afterward made as many as 66 igation, in fact, will be transferred gun, is accustomed to the use of the ascents, and died a natural dents, but

ascents, and died a natural death; but from the aqueous to the atmospheric old muzzle loader, and when he charges his wife, who pursued the same career, ocean, and we shall not only have ships it with buckshot or "slugz" and turns met a horrible death by her balloon of the air, but sailors, who will be as loose something generally happens. taking fire above the city of Paris, much at home above the clouds in the when she was dashed to pieces in one domain of Acolus as hitherto they have of its streets. The first woman, also, been in that of old Father Matters Matters and may attend.

have been invited and may attend. J. M. SCANLAND. JAMES K. STROTHERS.

superintendent of Sequela park, Cali- rial theater, Westminster, for several Paris the shab of Persia consented to and the fireman one of 30 frances. In a contain the first five books of the Old use a fork in eating only upon state oc- letter from the administration of the Testament. The text is in Hebrew and casions, and that at all other than the first five books of the testament. can be read with the aid of a magnify-

United States, but it is gradually and slowly becoming so. From 1850 to 150

and the machine is still manageable everything that comes within range The problem of successful aerial nav- wolves, cougars, wildcats, foxes, der igation is being worked out in accord- and elk. It will be perhaps the largest ance with the immutable laws of devel- hunt ever held in the west. There are opment that have governed all great about 200 members of the association inventions and discoveries from the and few of them ever miss such good time of Archimedes to the present. For sport. In addition there will be a numexample, while the first balloon ascen- ber of old mountain hunters who have sion occurred in 1783, when the poten- been invited to take a hand. As an

The aerial ship of the near future, instructions to let no lion or bear est there is good reason to assume, will be cape, will have a wagon train in which

automobilism has recently brought to ro racing, shooting matches, etc. The members of the association will be armed with the latest improved have endeavored to surmount lies in rifles, which will dispatch a lion at the winds or air currents, which, in- long range, but the ranchers will have stead of being depended upon to propel the old style shotgun, which carries the airship, are henceforth to be con- only about 100 yards. The rancher sidered as merely auxiliary or as af- likes to get within close range of these

Whale fishing is not extinct in the

the annual product of the American whale fisheries fell from 100.000 barrels of sperm oil to 42,000, of whale oil from

There are five routes from London to It is not an uncommon sight to see a Chinese soldier with a fan and an um- union. Chicago public school children con- brella strapped across his back. tributed \$4,230 to the relief of the Gal-A Pasteur institute has just been

the Paris exposition.

opened at Kassault, a hill station in the the name Paris and 13 London. During 1899 Spain bought \$7 vessels Punjab district about 20 miles from Cape Town has American made Simia, India.

A plan is on foot to show in various | Cuptain Frank West, Sixth cavairy, Mrs. Langtry has acquired the Impe-

Chicago has a women's bookkeepers'

There are in the United States 39 Berlins, 21 Hamburgs, 13 towns hearing cago.

WAR BALL

ornia, reports that sawmills are men. years. She will renovate it and open acing the great sequala trees of the in the spring with "Marie Antoinette," which is now being written for her.

THE

Field and and the second states

ting as a universal remedy still prevalls in the Polish settlement of Chi- \$21,619,000 was gold.

SANTOS - DUMONT AIR-SHIP

The old fashioned idea of blood let-

M. DE

SANTOS

Alaska, employ 5,280 men, who receive stand on the footplate of an engine an average wage of \$1 an hour. Alaska, employ 5,280 men, who receive and drove the train himself. He made inch long, three-fourths of an inch wide 200,000 to 55,000, and of whalebone from the train himself. The French papers say that while in the ongine driver a present of 60 france and three-eighths of an inch thick and 5,000,000 pounds to 400,000.

who ever made an ascent was the first

casions, and that at all other times he Bavarian railways to the Bulgarian preferred to use the imperial fingers. court it was pointed out that the ac- ing glass. The mineral output of Canada for ceptance of these gifts is against the

I its streets. The first woman, also, been in that of old Father Neptune.

1899 was placed at \$37,000,000, of which \$21,019,000 was gold. rules of the service, and that, further, the engine driver had no right to per-On a recent journey from Salsburg to mit a stranger on the engine. The miners of the Yukon district, Munich the Prince of Bulgaria took his Miniature Bibles are worn as watch



competitors in the horseless race. A been called to take place in November, ecent feat of an American automobilist has attracted the attention and beginning on the ist and lasting three wonder of Europe. John Brishen Walk- days. The hunt will take place at Deer, the well known publisher and edu- beque, about 200 miles south of Dencator, almost succeeded in scaling ver, in the heart of the Rocky moun-

Pike's peak with his machine. His ex- tains. This vicinity has been selected periences in descending the mountain because it contains more lions and bears than any other section of the state, or, perhaps, than any other is the Rocky mountains. At this season of the year all animals tively small, 20 years ago being esti- heights because of the cutting winds

> tain iions and bears prey upon the deer, Debeque the hunters will take horses

It was only a few years ago that an and wagons for the mountain guich reauthority wrote: "Of the innumerable gions, where these predatory animals their guns, including lions, bears

been developed almost to their utmost and are eager to participate not only in the present century, yet voyaging in because they desire to assist in the m literal sense, "in the air." But yet, but because they also like the meat and meantime been brought to a great state "pack" of dogs, including every kind of efficiency, will be the most potent that can run and bark. Each division assigned to a certain territory, wh