Accidents That Made History

"A burning hayrick was responsible who was amusing herself with the co-for starting me on my running career." Jects lying about, exclaimed, "Oh, see So desared Alfred Shrubb, the how near the steeple comes!" world-famous runner.

Apart from sport, many things of the greatest service to mankind have been discovered by accident. The rubbing of a piece of amber "evoked," to use Faraday's words, "ar invisible about making use of his new know-agent which has done for mankind ledge of lenses. In this way the telefar more wonderful things than the genie of Aladdin did or could have done for him"; the up-forcing of the lid of a kettle discovered the marvellous power of steam, and the falling of an apple demonstrated the law of natural attraction. The swinging to and fro of a suspended lamp gave birth to the application of the pendulum, to study the chemistry of coal-tar-derivawhich the precision of modern astronomy owes so much.

The manufacture of gunpowder was tinian monk, Berthold Schwartz, having put a composition of sulphur and saltpetre in a mortar, it took fire, and the stone that covered it was blown off with great violence. The accident led the chemist to think that it might to advantage in attacking fortified places.

Seen in a Dream. Leaden shot is attributed to a Bristol plumber who, in 1783, dreamed that he was out in a shower of molten lead which fell in the form of spheridrops. His curiosity aroused, he went next day to the top of a church and poured some molten lead into a vessel of water lying be-

To his great delight, he found that the lead had gathered into globular balls, and at once he took out a patent. One day, about three hundred years ago, a poor optician was working in his shop in the town of Middleburg, in

JED CARTER, OF

SHADOW DELL FARM

By William Johnson

I should like to have seen what

some great fictionist would have done

with Jed Carter. Here in our quiet

little neighborhood, Jed has lived a

story that thrilled every one of us. He

is a dark, lean, silent man of about

thirty-seven, with a reputation, years

back, of permanently retiring from cir-

culation ninety-five cents of every dol-

Twelve years ago Jed bought a hun-

dred acres of swamp and hills that no one else wanted. He has made as

pretty a little farm out of it as a real-

estate dealer would want to picture on

seemed to be the only thing Jed knew.

They say he wore out an alarm clock

clearing up that farm, but in nine

I drove by with Uncle Dave Dayton

the day Jed nailed the name he had

given his farm over the arched gate-

way opening on to the curved, cedar

bordered drive. Shadow Dell, it read,

and neither of us could have been more surprised if it had been an an-

nouncement of a free chicken dinner

to the entire neighborhood. We hadn't

thought that there was a streak of

'Now. I wonder who he'll marry,"

sentiment that size in Jed's iron make-

Uncle Dave said. He was driving with

one hand while he stroked his pointed

silver beard with the other, and think-ing so intently that he absent-minded-

ly stepped on the accelerator instead

"You've got a lot of faith in signs."

l laughed, when we were once more

skimming safely down a smooth stretch of macadam. "Jed wouldn't

one thing at a time, like that farm,

with all there is in him. He's ready

way. That little chap with the bow

has arrows with special long points on

school that fall, and from the begin-

ning it was plain to see that see was

centre of the universe to Jed.

Into a ditch

Bay Port hasn't got."

'em for Jed's sort."

two lanters every six months,

the cover of his catalogue.

years he did a magnificent job.

ler he got.

She was looking through two lenses, one held close to her eye, the other at arm's length, one being convex, the other concave. The optician saw in this a wonderful discovery, and he set about making use of his new know scope was invented.

Rontgen's Rays. The discovery of saccharine, that sweetening agent so much used as a substitute for sugar during the war, reads like a romance.

Dr. Fahlberg had entered the Johns Hopkins University in America to tives. After some months he noticed an intensely sweet flavor upon his bread and butter. He traced the sweetness to his hands and his coatsleeves and it dawned upon him that it must have been derived from one of the new compounds he had succeeded in producing.

He hurried back to his laboratory and tasted the contents of every vessel with which he had been working. One of the beakers contained saccharine, a substance whose sweetness is three hundred times greater than that of

Professor Rontgen came upon his marvellous X-rays quite by chance. He was experimenting in the dark with a Crookes vocuum tube, which was covered with some sort of cloth. strong electric current was passing through it, while close by was some prepared photographic paper, but no camera. Next day he noticed several lines on this paper. By restoring he's got to go to his own when the everything to exactly the same congreat need comes. Jed'll find his in dition as on the preceding day, he was able to ascertain the real origin of They're full of healing." the Netherlands, when his little girl, these mysterious marks.

> young and old Bay Port bachelors were full of the same idea.

> Dora had the time of her merry young life. Wherever she wanted to go she had the pick of every sort of conveyance from Hank Newberry's spavined old sorrel and buckboard to Jed Carter's shiny new "six." And she was as likely to take one as the other. She played her suitors pretty evenly, though we did think Jed was a little in the lead. We could never be sure, for Dora was one of those golden-headed, laughing little witches that a man can understand about as he can gather up a bucket of moonlight.

Jed followed her around at parties and picnics, looking as mournful as an orphan lamb on a windy hillside. Sometimes it is funny, but always it s pathetic to see a big, strong man who would stand a good show in a bare-handed fight with a wild cat made a woman. It lasted during the entire school term, then, woman-like, Dora ignored all the farms and fine houses laid at her feet, and married George Hess, the fat, bald, pug-nosed, povertystricken freight agent in town. I don't pretend to know why to any further extent than that she and Jed had a passing quarrel, and that George could make a violin laugh and cry.

Except for the night the engagement was announced you couldn't see much change in Jed. Maybe he was a little silenter than before and worked harder, but he could scarcely have beaten his previous records in either way enough to be noticeable.

The announcement came as a sur prise at a party the Ellisons gave, which was where Dora boarded. Jed of the brake, nearly running the car corners of his mouth twitching, his in all this? big hands fumbling with his vest front and the sham of a smile he managed to hide his hurt behind.

I thought of him going back to his consider anything but an heiress, which little house and finding a silence as of death in its still rooms. In his dreams 'Don't you fool yourself," Uncle it had been a home, warm and glowing Dave said. "Jed isn't a miser. He's just a one-idea man. He goes after with such pictures as only the love of a clean man for a good woman can paint. And now it was just walls and a roof, and the man was standing or a mate now, and it'll be the same there with that desolation in his heart, hiding it with the little pretense he knew. It is the heritage of the country—that stoic power learned It turned out much as Uncle Dave from frost and flood and drought-to said. Dora Lorring came to teach our take your pain calmly, as it comes.

"Words won't help him," said Uncle Dave when he and I sat out on the porch a little later. "They never do What is more, a half-dozen other help much. Every man has his own

sources of strength and comfort, and **ENGLISH ESTATES UNDER HAMMER** the everlasting things he's lived with.

BEING DIVIDED.

Ever Increasing Taxes, War

Ruined Families and De-

mand for Farm Lands.

Despite all the "stately homes of

England" that have passed under the

hammer within the last few months

and despite the daily page and more

of the Times advertising further splen-

of the estates, great and small, will re-

main in the hands of the original

lid properties for sale, by far the bulk

Up to fifty years ago 2,000 persons

wned half the agricultural land of

England and Wales. Heavy as have

been the sales, past and to come, they

these great property-owning classes

tee reported only the other day that

There can be no doubt, however,

that the sales have been heavy and es

tates of supreme historic and artistic

interest have recently passed into new

Lord Beatty, institutions and hotels

and the housebreaker and lot seller.

Pleasure Lodges Go First.

the medium sized establishments.

When "the stately homes of Eng

Ages it was often by royal grant or

forfeiture, and the holder literally loss

his head under the axe of the execu

tioner at the same time. To-day when

he loses his ancestral home under the

hammer of the auctioneer he does not

lose his head, literally or figuratively,

but re-invests the purchase money in

what are called "gilt edged securities."

and rejoices at his release from the

pensive to maintain, and their accom

modation is in excess of what all but

the wealthiest and most openhanded

equire. At the same time, by buying

them or renting them, it has been well

said that a man 'may enter into the heritage of centuries." At one bound

he becomes a person of weight throughout a district, and may hope to assume various interesting and

honorific offices, some of which, such

as the position of High Sheriff, are not

coveted by men of restricted means.

him-hunting, shooting, fishing and

golf, and if he is a social individual he

will find plenty of friends, men of af-

fairs or plain country gentlemen, ac-

cording to his tastes, who will wel-

come him to their houses and be glad

to enjoy his hospitality in turn. An

illimitable range of interests opens to

him, and we have personally known

many men who went as total strangers

to a county, but who soon became

known and liked and a power in their

adopted district. Privileges of no

mean order may, in short, be enjoyed

by a man who can afford to rent or

buy an English country seat, and the

cost is not prohibitive.

A wonderful range of sport awaits

The great country mansions are ex-

ourdens of landlordism.

had to go entire.

They have passed into the

area was reserved in deer forests.

and the worst is vet to come

A year later George Hess took sick with some obscure malady that the doctors said could only be cured by an LARGE HOLDINGS NOW expensive operation and a rest in a warm climate. Neither George's folks nor Dora's had any money, and no way to borrow the thousand dollars that would be needed. While we were talking the dreary situation oevr. a joyfully surprising thing happened.

ed wellington

One of the great surgeons from hospital in a nearby ctiy came to Bay Port, explained that he had heard of George's sickness through a patient from the next town, and that as the malady was a rare one he would be glad to perform the operation for no other pay than the scientific pleasure it would give him. He would even bear the expense of the Southern tripthat being necessary to complete the cure-and it could be repaid later.

Of course the offer was accepted and we waited anxiously for news of

the outcome. make no serious dent in the ranks of It was six weeks later when we go word from a seaport village in practically useless by a little mite of Jamaica. It came to Uncle Dave, as it In Scotland a Parliamentary commit naturally would. Just a six-word telenearly a fifth of the country's total gram, which happened to arrive one evening when he and I were in the post office.

George died this morning, coming

Dora. Uncle Dave crumpled the yellow shee that carries so much of pain and joy, and seemed to be looking at so thing a thousand miles away.

"I wonder how anyone can ever lose faith in life," he said. "What queer, round-about ways it takes.

More than a little puzzled, I asked him what he meant. "Didn't you know that Jed Carter

and relatively small amounts of agriwent to the city about a week before that surgeon came?" he demanded. "Didn't I tell you he had mortgaged agricultural land ran into thousands was among the first to congratulate his place for a thousand dollars? Can't of acres sales of part of the land enthe smilling, flustered pair, but I didn't hear what he said. I only saw the straighten out a tangle for a real man most valuable sections, with their

Of course I could after I'd got and taxes. Medium sized places have through gasping and marveling. How little would the keenest observer have suspected that close, silent man of such a sacrifice! His toil freely given to another who had stepped between him and his happiness, for the sake of the woman who would not have him.

By littles the story leaked out, and when, a year later, Jed and Dora were married, I don't believe that Bay Port ever dressed up and forgot its work for a day, and had a better time. Such a wealth of presents was never befor showered on a happier pair.

Just before Uncle Dave got into his car to drive them to the station he turned to me and said: "You go out to Jed's place, John, and

take down that name over the gate. Put up the one you'll find in my gran-It's 'Sunshine,' not 'Shadow

A Master Hand.

Dora—"Do you know, George pro-posed to me last night." Flora-"Yes, doesn't he do it beauti-

Scores of historic houses may now be taken at a moderate rental, inclusive in many cases of the magnificent paint will not rust.

INSPECT THE STEERING there is a constant resistance against APPARATUS any extraordinary pressure from either direction. Suppose it should break-the steer-

ing apparatus of an automobile going at even ordinary speed? One needs to exert a certain pressure to turn the to have no very vivid imagination to boat about. In actual practice it keeps picture the possibilities of disaster. the boat from wabbling. The same The thought brings up visions of a principle applies to the front wheels car making wreckage out of itself and of an automobile. If they are perfectly everything in its path, plus horrible aligned there will be no tendency to human suffering. A broken steering give one way more than another and apparatus leaves the driver in a more helpless position than the collapse of the wheels aside and make the car almost any other part of the machine. Experience teaches that this When a motorist thinks of running without the steering rod he pictures wheels trying to go in divergent di-rections, with his ultimate destination the ditch. As a matter of fact, it is possible to run a considerable distance Each seeks to go slightly cut of true at moderate speed with only one wheel connected to the steering apparatus, as experiments have demonstrated.

The front wheels of an automobile also have other peculiarities not usu- the slightest degree. Only a rut or ally understood by the amateur driver. For instance, most people think that them to turn, and this would be the the front wheels of an auto should be perfectly true in every way; that is, that they should run exactly parallel. ed lubrication or otherwise, the wab-But they do not run parallel from any bling tendency is especially noticeable. viewpoint. The front wheels actually toe in to a slight degree; that is, the and aft; that is, the bottom is further distance between the front part of forward than the top. This is to he'p the wheels should be one-quarter to the wheels pointed straight ahead

Variations Necessary. Theoretically there would be a wear on the tires if they were at all out

of ease. very slight difference is necessary to play in both knuckles the same as enable the steering to be a matter of with a chain when it is drawn tight. certainty. There will be an intangible amount of extra wear, but it does not automobile owners have the steering cut any particular figure in the life apparatus regularly inspected to see

This principle can be illustrated by of alignment. The pin might drop out referring to two types of boats which when going down a steep hill, or when are familiar to most folks. One is the running at high speed. And there is scow with the square nose, which is extra wear on tires when the wheels very hard to steer either with or are not properly set. And there is, of against the tide. It is pushing flat course, great possibility of disaster against the water and there is no lat- when anything happens to the steereral pressure to keep it steady. The ing parts of an automobile.

This makes it necessary in steering very little pressure would tend to turn actually occurs.

Keeps Car Steady.

If the wheels toe in a little there is exactly the same pressure effect working from opposite directions. and each offsets that tendency in the other. This naturally keeps the car steady and the wheels pass over slight obstructions without turning them in some large obstruction would cause case under all circumstances

In case there is wear due to neglect-

Sometimes the pins are inclined fore three-eights of an inch less than the making the wheels into a sort of cas-distance measured between the back ter, that they trail easily. The knuckles are directly over the centres of the wheels and the line of weight would be directly downward, but the pins point forward. In this way the of true, but when it comes to the line of weight is moved forward and practical consideration of an auto the weight is carried ahead of the there are certain variations of this contact point of the tire with the which are necessary to make the op-eration of the car safe and a matter knuckle pins keeps them firmly in place, even though there be consider-Of course, there cannot be too great able wear. The pressure being from a difference in the alignment, but a both sides, it naturally takes up the

It is tremendously important that of the tire and it gives a stability to that the pins are kept tight and that the steering which cannot be neglected. the wheels do not get too much out pointed bow boat, the ordinary type, parts represent a consideration of has a pressure on each bow so that serious importance.

antique and other furniture with which so many old mansions are enriched. Sometimes a tenancy is granted with an option to purchase, and in the case of one well known seat, Ragley Hall, Warwickshire, it has just been anbe accepted from anyone willing to

expend money on the house. hands of three classes: People of re-In the same county is a castle, Maxcent wealth, like Lord Leverholme and stoke, of early mediæval date, which can be rented for a few pounds a week. There are castles - real baronial strongholds and once royal palaces-The toll has been the heaviest in with a teeming wealth of history, and every modern luxury of equipment, to That means places used primarily for be had for a few hundreds a year. The alone is powerless to provide. pleasure. They have had large houses owners cannot keep them for their own occupation and prefer to let them cultural land. In estates where the at a low rent rather than see them empty and neglected. That, then, is one way in which the great houses of England are dealt with. There are others, chiefly conversion to institutional uses, such as schools and sanatoria; and, happily, still infrequent, demolition and sale as building maland" changed hands in the Middle terial.

Of great houses that have been converted to institutional purposes in the last few weeks or months only a few can be mentioned. A Berkshire mansion has been made into an orphanage: another in Bucks into a training home for London deaf children: Bedgebury, a palatial mansion on the Kent and Sussex borders, has become a boarding school for girls; Deepdene, famous Surrey seat, has just been turned into a hotel: Cefn Mablys, most historic of South Wales mansions, is to be a convelescenthome for the workers of a Cardiff firm, and the late Patti's South Wales castle, Craig-y-Nos, has been bought for cothey drink away their own.

version into a sanatorium, and so with many others

Let none infer, however, from the ecital of the extent to which England is changing hands that everything is in the melting pot socially. It is not, nounced that a nominal rental would and despite the vast number of famous and ancient estates in the market there remain yet more that are still owned and occupied by the bearers of the names that have been associated with them for generations. So long as they can continue their connection with the properties so long will the ownership of the great English domains have amenities such as money

The Hay-Fever Weeds.

Adult sufferers from hay fever need no warning to beware of the windto infection from hay-fever plants and so contract "colds" that could be avoided. Children often pick the daisy fleabane, the pollen of which is noxious. The little daisylike flowers are about half an inch in diameter and have a greenish-yellow centre. casionally the petals are lilac tinged, and sometimes they are extremely short or altogether absent. child is old enough to play by itself. it is old enough to learn the numerous hay-fever weeds, most of which are wind pollinated and have inconspicuous flowers, devoid of bright color or scent, but forming pollen in great quantities.

Some drink so many healths that

Discouragement Is a Disease

The moment you yield to discourage- | may ruin one's happiness, one's whole ment all your mental faculties become depressed. They lose power. There is no co-ordination of effort among them; consequently they fail to do vigorous team work. Your initiative ls paralyzed, your executive ability to anything effectively. Your whole mentality is placed at a tremendous disadvantage, and until this enemy is driven out of your mind, neutralized by the affirmation and the contemplaa of its opposites theer, hope, and a vigorous expectation of splendid things to come you are in no condition to do good work.

Every suggestion of discouragement, of fear, of failure, is a destructive force, and in the degree that we allow ourselves to be influenced by it will tear down and retard our life processes, cur life work. It will darken the and crase one to make fatally

When trials and troubles come to us, when overwhelmed with sorrow. when death comes into our home and snatches away some dear one, it is very difficult to see through the storm, strangled. You are in no condition to to pierce the black clouds and see the healing sun behind them. Struggling with the sorrow of that great loss in our life, it doesn't seem as if we could ever be happy again. When so suffering we wonder in a sort of dumb re sentment how other people can possibly be laughing, having a good time going to theatres, dances, enjoying life as usual. It seems cruel, almost others to enjoy when we feel as if we

could never even smile again. But we know that time heals the deepest sorrows, that physical and mental fils pass away, and that the brave soul is the one that adapts itself to the storms and sunshine of life. decisions, to take steps which New Success.

A Maxim of the Woods.

The hunting season is at hand, and therefore it is time to recall the old maxim of the woods, "If you get lost, stay put." A night in the open and twenty-four hours without food need not hurt anyone if he does not use all his energy in futile wandering and shouting. The most conspicuous spot available suggests itself as the place to camp, and common sense directs a little smoky fire to guide the inevitable searchers. There is no need to worry; if you follow nothing but the rule you cannot be lost long, and your rescuers will not have to run down a wild man at the finish.

Historic Homes to Let. Bed-springs coated with aluminum

Diplomacy Needed to Build Pole Line

maliciousness lies at the bottom of objects the agents carefully explained, tellies the chiefs it consisted simply pecially is this true in the dealings of pecially is this true in the dealings of the country, with a small wire stretcha civilized with an uncivilized people. ed along the tops. They enlarged on So apart are the ranges of experiences what advantage the natives would gain that a mutual ground of apprehension free the forts and stations establishis hard to find. One no longer won- ed along the way, from which they ders at the reluctance of the Asiatic could cain supplies and clothes. tribe to allow the telegraph to pass through its country when he reads of

for the telegraph, wished to bargain the poles would be placed. When this with the Lamuts for deer to be used in point was smade clear, all faces brightthe construction of the line. The ened. chiefs received the agents with great | Thoy knew that the line of teledignity, and gravely listened to their graph world cross their usual routes proposals. Then they announced that of travel, end they had supposed that they had plenty of reindeer and were the poles would be so close perfectly willing to sell them for any that they could not pass between them other purpose, but not for the building with their dees. This difficulty disof the telegraph.

Thinking that they did not under to furnish two handres deep

Lack of understanding rather than stand the nature of the line and its

The agents were puzzled, not being able to imagine why they were so op the true reason of the native's refusal. posed, wen one Lamut, as if struck The company, surveying the ground | by a new idea, asked how far apart

posed of, they immediately promised