

THE LEMON AND HANDKERCHIEF TRICK

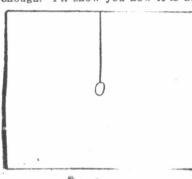
This was one of Herrmann's favorite tricks, and it affords a very good example of his style of working. The performer comes forward requesting the loan of a lady's handkerchief. While it is being procured he produces from the hair or whiskers of one of the spectators a lemon which he carelessly thrusts under somebodys nose in order to prove its genuineness. (This lemon which, of course, was palmed, is a prepared one from which the pulp has been scooped out, and which contains a substitute handkerchief, so cannot be handed for examination.) Turning for an instant towards the stage, he tosses the lemon on to his assistant, who catches it, and places it on the table. The momentary turn from the audience enables him to get from under his waistband, and to palm, a little bundle of pieces of cambric, each about four inches square. Taking the borrowed handkerchief he rolls it into a ball between his hands, and hands it (apparently) to some one to hold, in reality substituting the torn pieces of cambric. He then turns, and takes a few paces towards his table, meanwhile tucking the handkerchief under his waistcoat, and taking therefrom in place of it a strip of cambric, about four or more feet long and four inches wide rolled up into a small compass. This he palms. Suddenly turning back he exclaims. My dear sir, what are you doing with that handkerchief? I never told you to do that! The innocent holder looks up in astonishment, but the performer continues: Will you have the kindness to open the handkerchief? He does so and finds it all in pieces. After a little chaff about mak ing him pay for the damage, the per former says, Well I suppose I mus: show you how to restore it. Here he again takes the pieces and folds them together, saying, See you must tak them as I do, and rub them very gent ly with the left hand. Substituting the prepared slip he hands it to him; but, when he begins to cut exclaims again, Dear me, what are you doing now. I told you the left hand, you are making matters worse than eve: The handkerchief is now found to be a loud strip. The performer endeavor to induce the owner to accept it in the shape, which he answers her is the newest style, but she naturally object and begs that it may be restored to Its original condition. For that pur pose, the performer rolling the slip in to a ball, places it in his magic pistol and rams it down with his wand. A; pearing to reflect for a moment, h says. Where shall I fire it? Ah! sup pose I aim at that lemon on the table Bang! goes the pistol, and the pe former, taking a knife cuts the lem all around (flinging the rind carel as on the stage), and produces the subst tute handkerchief (professedly the iginal). He comes forward to the : dience with it, and after thanking owner, makes a gesture of returning but as if struck by a sudden though checks himself and says, I'm afraid smells rather strong of lemon. Wi you allow me to scent it for you? have some capital cologne here. Go ing back to his table, he places the handkerchief on a plate, and pours o it, turning as he does so to the owner and saying, Please tell me when you think there is enough. While his back is turned, the attendant, who has been standing by holding a lighted candle with a mischievous wink at the conpany, tilts the candle and sets th handkerchief on fire. The performe apologizes for his assistant's stupidity but appeals to the company to bear wit ness that it was no fault of his, and bringing forward the plate, with the handkerchief still blazing, offers it to the owner. She, of course, declines to take it, and the performer, remarking You don't like it in this condition well, then, suppose I put it in pape for you, places the plate on the floor telling the assistant to put it on th table, and runs off to get the paper The attendant tries to lift the plate but finds that it burns his fingers However, after several attempts, getting the plate a little nearer at each, he manages to place it on the table. This little by-play amuses the audience, and gives the performer the few moments which he requires for his preparations behind the scenes. Coming forward with a sheet of clean white paper, he wraps therein the still blazing haud kerchief, crushing it together so as to extinguish the flames. He offers the packet so made to the lady, who, be lieving that it contains nothing bu. ashes, declines to receive it. When the professor, tearing the paper apar pulls out the handkerchief perfect; restored, while the burnt fragments have vanished. The effect last men tioned is produced by the use of a don ble paper, pasted together round three of its sides, and thus forming a kind of bag in the centre. In this bag the performer, during his momentary absence from the stage, places the genuine handkerchief, folded so as to occupy as little space as possible. The handkerchief, therefore, lies between the two thicknesses of the paper, and when the rolled up packet is torn open from outside, may be removed without disturbing the burnt fragments, which still remain inside the paper.

Where it is necessary, as for the purpose of this trick, to introduce some article into a lemon, the necessary preparation should be made as fol-A lemon with a thick hard lows: rind should be selected, and a plugshaped piece about an inch and a half in diameter should be scooped with a sharp knife out of one end. The pulp may now be removed leaving the rind a mere shell. While the piece original. ly cut out will form a stopper, which may be secured in place by thrusting a hairpin or a piece of wire through the fruit and plug from side to side and ripping off the ends flush with the outer surface. When the performer exhibits the lemon, he takes care to have the oft end towards his palm.

#### THE ANIMATED CIGAR.

Among the least known hat tricks is a good one known as the "animated" or "dancing" cigar, wherein an ordinary cigar is made to stand upright, balance itself, bow to the right and eR, and so forth, or the crown of a borrowed hat.

You begin by saying "I am about to show you a curious experiment in animal magnetism, for the purpose of which I must ask some gentleman to oblige me with the loan of a hat. Thank you. New will some one else chige me with a cigar? I am not going to smoke it. I am merely going to make it stand on end, and balance itself on the crown of this hat. Will you assure the company, sir, that this is a common eigar! I don't mean a very common cigar, you know, but an . ordinary every day cigar, without any mechanism or preparation about it. You are all satisfied that it is so? Now then to make it stand on end." Of course in a natural way, it would be quite impossible to make a cigar do anything of the sort, but with the aid of a little animal magnetism, it is easy enough. I'll show you how it is done

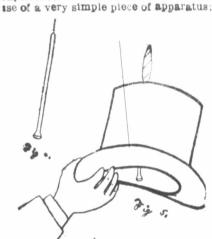


F. 5. 2. First I describe a magic circle on the crown of the hat, the nearer the centre the better. Then I breathe gently on the crown, and also on the cigar, so as to establish a mesmeric relation be tween them, and then I place the cigar erect within the magic circle." (This is done but the cigar falls) "The influence is hardly strong enough yet, but it will soon develop itself. That is bet ter, the cigar stands erect, you see self-balanced, and you will find that it is now under complete control. Come! cigar, bow to the ladies." (The cigar inclines gravely to the front.) "Now to the ladies on the right. Now to the ladies on the left." bends each time in the direction indicated.) "If the conditions are favor able and the influence is strong enoug perhaps the cigar might be induced to

favor us with a little dance. "Do you think you could manage cigar

(Cigar bends thrice) "You see it bows three times, which according to the approved spiritualistic code means ve-Will the pianist oblige with a litt The performer grasping th music? hat by the brim, moves it round an round in horizontal circles, keepin time to the music, the cigar swayin with the motion.

"You see the cigar keeps time in th most obliging way, but I feel that the power is beginning to fail. Will the owner of the cigar take it from the ha himself, and see that it really is hi own, and not a mechanical imitation You will find it smokes all the bette sir, for having gone through this littl The secret lies in th experience."



rod of hard wood war inches long and five-sixteenths of an inch thick, with a little cup or thimble at one end and a strong sharp needle an inch and a quarter in length projecting from the other. (See Fig. 4.) This is placed needle downwards, in the left slieve of the performer, and after the hat i borrowed is allowed to slip down i to it. During the performers first pre tended endeavor to balance the ciga on the crown of the hat, he applies the needle (with the left hand, which hold the hat) to the centre of the crown in side, and presses the needle through it This, however, is done very graduall so that only the extreme point sha pass through in the first instance.

As soon as he sees the point emer; from the surface he covers it with th lower end of the cigar, and thrusts home within the body of the cigar. Th hat may now be transferred from has to hand, or tilted in any direction, but the cigar will still remain upright, it. weight being counterbalanced by that of the wooden rod within. (Fig. 5.) If the hat be moved round and round in circles, the rod sways from side to side and son... aunicates a corresponding movement to the cigar. By inserting he middle finger of the hand which holds the hat into the thimble at the lower end of the rod, the cigar may be made to incline in any given direction and so to bow to the company and so forth. When the owner of the cigar pute forth his hand to take it back, the performer at the same moment with g aws the needle from below, and lets the little rod again drop into his sleeve when both clear and hat will of course

stand any amount of examination.

### SCIENCE NOTES.

The sewers of Paris are now being searched for treasures, owing to the recent discovery by workmen of a bandle containing \$120,000 in securities.

"The latest American idea for the sheathing of vessels to prevent fouling and corrosion is to sheath them with glass plates, which is said to be entirely feasible." The above item is from The Engineer, of London. While this may be true, we have heard nothing about it, and it sounds suspiciously like paper bicycles and other things of like order, which seem to exist only in the minds of newspaper reporters.

The British Eastern Australasian and China Telegraph company filed a claim with the State Department of the United States for \$36,000 damages for cutting its cable by Admiral Dewey at Manila last May. The United States Attorney-General has now rendered a decision finding that, according to international law, there was no ground for a claim for indemnity where a military commander cuts a cable within the territorial waters of an enemy.

a curious experience in which it was shown that no one is indispensible in this world. The compositors having struck, the text accompanying the illustrations was written out on the typewriter; then the typewritten sheets and the copy for the pictures were pasted on large sheets of cardboard and the whole was reduced by photography to the required size. From this negative a photoengraving was made from which the paper was printed.

The authorities of the Southern Metropolitan Gas company, an English corporation, have added workingmen directors to the board of the company. The report stated that the profit sharing system, which was introduced in 1889. continues to justify its existence. as it induces a generally intelligent interest in the welfare of the company on the part of its officers and men. Two of the workmen were elected by the workmen shareholders to sit on the board, and the result so far has proved very satisfactory.

According to The Medical Sentinel. It has been ascertained by careful observation that certain families in a village of St. Ourn, France, enjoy absolute immunity from tuberculosis They are gardeners of excellent habits who intermarry among themselves and keep apart from the immigrant labor ers. The latter suffer severely from the disease. It is considered probable that hygienic conditions are not the sole cause of the difference, but that by a kind of natural selection a race immune from tuberculosis has been de veloped.

Caisson disease, or compressed air disease, is a malady which is ofter contracted by those who are engaged in engineering work in positions where they are subjected to great air pressure. Dr. Thomas Oliver has observed several cases of this kind, and he has arrived at the conclusion that the symptoms are best explained by the theory that the malady is due to increased solution by the blood of the gases met with it in compressed air and the liberation of these gases during decompression. The increased solution of the gases is due of course to the greater pressure upon the person of the caisson worker.

The old "Physic Garden," at Chelsen which was leased to the "Apothecaries Company" in 1673, and presented t them by Sir Hans Sloane in 1722, is t be placed under a Committee of Societies and the garden is to be maintained for promoting the study of bot any with special regard to the require ments of general education, scientific instruction, and research in systematibotany, vegetable physiology, and in struction in pharmacy, as concerns the culture of medicinal plants. New of fices, lecture rooms, and laboratories are to be provided. The old "Physic Garden" was one of the oldest, if no the oldest, botanical garden in the world, and is of considerable historical importance.

# NOTES OF NOTABLES.

Colonel Edmond Bainbridge, the Superintendent of the Royal Laboratory at Woolwich, who has been made head of the ordnance factories, entered the Royal Artillery in 1860, and has been associated with Woolwich in var ious capacities for many years.

M. Ernest Legouve has completed his ninety-second year. He is the senfor member of the French Academy, both by election and by age. Crowned for the first time in 1829, he was elected in 1854, and only a few days ago received the "Prix Jean Reynaud."

The request made to Mr. Ruskin that Mr. Holman Hunt should paint his portrait has received a negative. His present state of health, say those who know him best, would not permit him to face the fatigue of sitting to so laborious and conscientious a painter as Mr. Holman Hunt.

Lady Georgiana Grey, daughter of Earl Grey, the famous English statesman, has just celebrated the ninetyeighth anniversary of her birth. Lady Georgiana is the oldest resident of Hampton Court Palace, where for some years she has occupied a suite of apartments. Considering her age she enjoys remarkable health, and takes drives almost daily.

Fraulein Elsa Neumann was "promoted" to her degree of Doctor of Philosophy in Berlin University the other day, the first woman to be so honored. She obtained it in the studies of chemistry and mathematics, which she had pursued at Gottingen and finished at Berlin. The hall where the ceremony took place was wowded to suffocation, and the young woman received great applause from the general public and the students present.

### WRECKED BY ELECTRICITY.

How an Antiquated Pridge Was Got Rid o Easily and in a Hurry.

When the old wooden bridge over the Wabash River at Cliuton, Ind., fel with a crash last week a new use wa: demonstrated for electricity. A nove experiment had been tried and prover remarkably successful. It was wreck ing a bridge by electric current.

The old bridge at Chiston was buil in 1853, and was a frame structure sup ported on stone piers. It consisted o. three spans, with, a true length of 735 feet. Originally the bridge belong. ed to a stock company, and enjoyed the distinction of being the only tol. bridge in the State of Indiana. But lately it had passed into the control of one man, and became rather unsate

When with the progress of time th€ old bridge became antiquated it was decided to replace it with one of more m dern design and of durable coust uction. The county authorities purchased the approaches, piers and abutments and entered into contract for a new Petit Bleu, of Brussels, recently had steel superstructure to be crected on piere and buttern's f ample strength and in

> ..on. The ow or of the old bridge agreed to remove the frame structure within tnirty days. He found, however, that this was no easy accomplishment. He traveled about, consulted bridge and house wreckers, wrote letters, and sen! telegrams, but all to no purpose. No company or individual was found that would agree to take down he timbers leaving the masonry intact, in the time available. The thirty days passed, and

> the old bridge still stood. The owner succeeded in getting an extersion of a week, but he was at his wit's end. The structure could be blown up with dynamite, but the explosion would destroy the piers also It could be set on fire, but that would erack or injure the mesonry. Several other plans were sugges ed, but the only sure way seemed to be the crection of false work, and that method was out of the question, wing to the shortness of time allotted for the work

At this juncture, H. N. Mills, an electrician living in Clinton, suggested the ase of electricity. He agreed to wreck the wooden bridge structure without injuring the piers. Although the undertaking was a novel one, Mr. Mills was confident that his method mus: prove successful, and he was 'right. His offer was gladly accepted.

Each span of the bridge was composed of nine chords, each consisting of three timbers. Therefore if these twenty-seven sills were cut simultaneously the span would drop between the piers to the river beneath. This was what was actually done, the cutting being accomplished by burning through the wood by loops of iron resistance Fire made red-hot by the passage of an electric current and weighted down by sash weights. The timbers were of yellow poplar and nine inches square Each one was burned simultaneously h two places. Thus the mass of tini bers dropped inside the piers without injuring them. It took one hous and forty minutes to wreck each span. Examination after the fall of the

bridge showed that all the sills were burned by the wire loops in exact the same, manner-five inches deep from the top and three inches deep the sides. When this depth was reach ed the weight of the span fracture the remaining wood. The cut mad by the hot wire was quite sharp and clean, and the wood was not charre more than an inch from the place fracture.

The plan was successful in every particular, and Mr. Mills was the re cipient of many congratulations. The current was first turned on about 5 o'clock in the morning on the day of the wrecking, and at 2 o'clock in the afternoon the last span crashed to th river bed and a great shout of admiration went up from the throats of about 2,000 spectators who witnessed the feat. This is the latest and most nov. el of the many uses of electricity.

# Cecil Rhodes's Idea.

In connection with the foundation of Cecil Rhodes's colossal wealth, there is a story told by an old fellow miner, himself lately a Colonial Minister of Finance, which illustrates at least one trait in the character of the great South African financier and politician. During the early days of the Kimberly diggings it was the custom when a miner found a particularly fine gem to invite those about him to the cere mony of "wetting the stone," i. e.drinking champagne at the finder's expense, with the idea that it would bring good luck in the discovery of another treasured. In the adjoining claim to that first taken up by M: Rhodes, in the very centre of the crater holding the precious blue firt, this invitation had upon a certain occosion gone forth, and the men were go ing their way to the hotel when was noticed that Rhodes stood aloof. "Hullo! Come on Rhodes!" shouted the lucky finder of the gem. "Aren't you coming up to 'wet the stone' for good luck?' To which, however, Cecil Rhodes only shook his head.

"I say, come on; there's a good fellow," persisted his neighbor.

"What are you going to do?" asked Rhodes, looking up. "Wet the stone with champagne, of

course." "Well," replied the futur magnate, decisively, "I did not come out here to drink champagne, but to make

money," and then went on with his

work. That Mr. Rhodes has succeeded in hat purpose, probably beyond all lights of his imagination, is now a natter of history.

DOES PAINT INJURE TREES!

Robert W. Furnas of Negraska Writes of His Experience.

It has been taught that an application of oil paint to the bark on the trunk of a fruit tree will injure the trees and finally cause its death. Until recently we have never seen this questioned. Robert W. Furnas, of Nebraska, an enthusiastic fruit grower of reliance, writes to the Country Gentleman as follows:

Some twelve or fourteen years since Tabbits gnawed apple trees in my nureery rows badly. To induce rapid and sound healing, I had painted with common lead and oil paint all the trees where injured. The result was to my perfect satisfaction. The wounds were not only painted over, but to prevent further rabbit depredations the bodies of trees were painted from the ground two feet up. Two years afterward my son called attention to the superiority of the trees painted over those standing side by side not painted. They were more vigorous and showed a better growth. Since then I have painted all my young orchard trees, for two purposes -to prevent rabbit injury, and co stimulate the tree. Rabbits will touch a painted tree, and I am convinced that trees are stimulated in growth and health. Do not understand that I paint the tree body with a heavy coat of paint as I would wood-

work-only a slight coating, enough barely to cover the bark. For many years when pruning trees, fruit, lawn or street. I have painted heavily and thoroughly over the wounds of all limbs, large or small, with ordinary cheap lead and oil paint. I have found nothing to produce such rapid and satisfactory healing where cut. I can show where oak limbs

four inches in diameter, thus treated,

have healed over entirely in eight

I formerly used, to paint tree wounds, gum shellac dissolved in alcohol. That is too expessive, and done not serve the purpose desired. It -cracks and falls off, leaving wounds bare. Do not fear to use oil pant of trees.

Twin Chicks in Each Egg.
The remarkable story is told James E. Fennessy, a Cincinnat eatrical manager, who has a porry farm at Culbertson, Ky., that he o., s a hen that lays two eggs in one every | still in usc. time-one egg inside of the other. The outside egg is as large as a turkey or a goose egg, and the inner one is of

the usual chicken egg size. Both have



hard shells and both are perfect as regards yolk and white. The hen ans been laying these fresh eggs for dix weeks, at the rate of three a week. Mr. Fennessy will place a number of them in an incubator and expects that twin chicks will be hatched out of each egg. The hen is a prize-winning fowl, is true to blood and points, and in every way seemingly as healthy as any other hen.

How Many Hens in a Flock There has always been much discus-

sion in regard to the number of hens that may be kept in a flock and still have them do their best. Of course much depends upon the limits of the range given them and the size of the buildings. Sometime ago I started out to observe the degree of success attained by my neighbors who keep poultry and I almost invariably found that those matrons who sold the most poultry and eggs and in every wy seemed to be the most successful were those who kept from 100 to 150 hen-A flock of this size would lav enough eggs and produce enough surplus stock to make its owner take a pride and have a lively interest in its welfare. Such a flock where well taken care of will bring in nearly or quite \$100 per year and that is a sum for which most farm wives will do considerable work to obtain. Of course this is not expected to apply to tho e yards that are run for the production of fine stock, but as regards to the general farm flock where it is not yarded but allowed the free range of

In keeping a flock of this size one can afford to spend some time each day to feed and water, as it takes no more time to feed 100 than to care for z0. But in most cases where parties, elated by success with this number, attempted to enter a larger field and built extensive houses and enlarged their flocks, disaster seemed to come, disease quickly made appearance and laying qualities decreased.

Black-Knot. Back-knot is a fungous disease af-

fecting the plum, cherry and king ed tree fruits. 'The damson among plums, and the morello class among cherries are the most susceptible. Beginning with the growing season

the knots develop rapidly. They should be cut off as soon as seen and burned at once. The badly infected branches should be cut off below point of in ection and burned, not left uncer the tree, nor piled in heaps and left in the orchard.

stave fallen they should be cut off and also, not later than February 15, as the spores or seeds are then ripe.

OUR NEIGHBORS IN MEXICO

Have Queer Ways of Doing Various Kinds of Work.

It is strange that we know so little of our neighbors, the Mexicans, Years ago we were at war with these people. We are now occupying some of their territory. Their farms adjoin ours, and yet we know as little of them as we do of the people in India; and possibly less.

The Mexicans are a peculiar people and have queer ways of doing var.ous kinds of work and attending to husi-



Mexican Poultry Carrier.

Our first illustration represents the Mexican poultry carrier on his way about the streets of the city selling

spring chickens. Our second illustration gives an idea of the peculiar plow used in Mexico. Rude as this plow appears it is a hundred-fold better than the plow used in Palestine, or in the Philippine islands.



#### Mexican Plowing.

The improved plow is more in evidence in the United States than in any other portion of the world. Even in many parts of Europe rude plows are

#### Milk in Farrow Cows.

The milk of sows that have long passed the season of greatest production, which is soon after farpowing, is much richer in butter fats than that which the say so s give soon after dropping their alves. If they have not been bred the milk also usually contains more of the umenoids also. For this reason it harder to digest, and as cows' milk at best unsuited to the stomach of fant, that from new mich where procurable, is always to be preferred. The milk of the cow is too rich in fats, causing the infant to throw it up, soon after taking a quantity. It may be improved by diluting it with warm water made quite sweet with pure sugar. Even farrow cows' milk thus reared may be used with safety if the infant is obliged to suck it through a tube, through which it

can only get a small amount at a time. The milk from farrow cows is excellent for making into ice cream. It is richer in cream fats than other milk, and is nearly as good as co am. Some people spay their cows when they do not want the trouble of breed- . and raising calves. A spayed cow that has this operation performed when the flow of milk is greatest will maintain her milk flow two, three or even four years if thoroughly mikel so as to get all that she produces. If milk is left in her udder the cow will soon dry off and become too fat for further milking. After being spayed she is no good for breeding, and when fat enough to kill she must be tu ned over to the butcher. A spayed young cow makes as good beef as a steer. There are few places in this country where it is an advantage to spay cows. All the best cows should be bred to bulls that are of good milk stock, while the poor cows are not worth keeping as milkers under any circumstances if others can be had.

# Wormy Apples.

There is nothing new about wormy apples except the way to avoid having them. There are several species of grubs or worms which work in apples, but the one which does nearly all the damage is the core worm. The core worm is the offspring of the codlin moth, and this is the insect which a man wants to fight in his apple trees.

The best general remedy for the core worm or codlin moth, according to information furnished by the Vermont experiment station, is Paris green. Some apple growers use London purple, others use white arsenic, but they amount to the same thing. They all poison the core worms. Other insecticides like hellebore, kerosene or sulphur are not effective in this

In the hands of the average man Paris green is the best medicine for he codlin moth. The poison should so thoroughly mixed with water at the rate of a quarter of a pound to the barrel,-that is about one pound of Paris green to 160 to 200 gallons of water. About a pound of lime ought to be added to each barrel of water, which will prevent scalding of he foliage. It should be applied with a spray pump and fine nozzle.

In case bordeaux mixture is used on the tree the Paris green may be added directly to that solution at the rate already recommended.

In the average fashion periodical the pictures of women in the latest Should any remain after the leaves, mode have little that is human about them and less that is divine. What burned, and badly affected bran hes man of sense could love a woman with a waist as small as her neck, and her chaps as uncouth as her shadow?