

THE OPEN DRAW.

"The closest run I ever had in my life," said an engineering friend of mine one day, "was once when I was fireman on a freight eral instances of the sun "going out" or failing to shine and give forth its usual amount of heat and light for petrain on the N. Y. R. R. The engineer I ran with was a Scotchman by the name of riods of time varying in length from

three hours to several months. Accord-"Joe had only one fault-he drank. The time I refer to was the morning of ing to Plutarch, the year 44 B. C. was the Fourth of July. We were running what was called the 'morning freight' and one in which the sun was "weak and pale" for a period approximating 11 what was called the 'morning freight' and had to start every day by 4:30. On this morning Joe was late. In a few minutes we got started, picked up our load and were fairly off. It was a clear morning and bid fair for a fine day, but about sunrise it began to get misty, and we were soon en-veloped in one of the heaviest fogs I ever months. 'several months of diminished sunlight" in the year 984 A. D., and, acording to Humboldt, this uncanny period ended with "strange and startling sky phenomena, such as loud atmos-

"At H-, Eben Capron, another engi-peer, who was off duty that day, got on with us. He was going home to spend the Fourth, and ours was the first conveyance Fourth, and ours was the first conveyance that came along. When he saw that it was all that Joe could do to carry himself straight, he offered to run the train for him as far as he went, but Joe declined. "Thicker and thicker came the fog until we could scarcely see the length of two cars ahead. Joe went very carefully indeed and did not me as fast acid a sub-

for several days. According to the noted Helmuth's "Solar Energy," the days of seeming inactivity on the part of the sun, the days following the sudden and did not run as fast as is usual. In fact, he went so slowly that at last Eben commenced to banter him on the prospect of getting to the end of the route sooner than for a peculiar greenish tings and are

could naturally be expected. "Well, just look here,' said Joe. 'I'm drunk, and you know is, and if I should go fast and run the train off the track I reckon you'd both of you swear it was the fault of the drunken engineer.

days that "the sun appeared dead and black, like a great circular cinder float-"By the time we got to C— the fog had partly lifted. Here we had a good deal of switching to do, and just as we were ready to start the conductor came up and said: ing in the sky." says Cortevza, an old Spanish writer on

time. I should have hurried you up if it hadn't been for the fog. All right, go ahead,' and he waved his hand and started back toward the rear car.

ick toward the rear car. "Well, I'll go fast enough for you if pean countries experienced another siege of supernatural darkness, which the

HOW PAPER MONEY IS MADE. Uncle Sam's Expert Engravers and the

metric Lathe. If you will look at the pictures upon a

dollar bill, you will see that the portrait of Martha Washington or of Stanton is com-posed altogether of curved or straight lines -the only kind of engraving that is al-lowed to be done in the bureau, because unless it is done in this manner, and unless the lines are cut very deep, the en-gravings cannot be used. Now, this por-trait was engraved in a piece of steel by the use of a very sharp little instrument known as a graver. Every little scratch on the steel plate

will, in printing, show a black line, so you will see how very careful the engraver has to be that he shall not make any false scratches, and that the lines shall be just

Now, steel engraving is the direct op-posite of wood engraving. The scratches and cuts made on a wooden block will be white in the print, and it is only the un-cut portions of the block that print black, while on the steel the unscratched portion leaves the paper white. When a design has been cut on a steel

When a design has been cut on a steer plate, and it is ready to be printed, the ink is put on the plate, or block, and all the cuts and scratches become filled with ink. Then the ink is carefully rubbed off ink. Then the ink is carefully rubbed off

two months to complete one portrait, and a man who engraves the portraits never does any other kind of engraving. Each engraver does only a certain portion of the work on a note. No one is permitted to engrave an entire note. So that besides e portrait engravers there are some who

do nothing but engrave the figures, the seal, the lettering, the border, etc. In this way it would be impossible for an en-graver to make a complete engraving for his own use if he were dishonest enough

to want to do such a thing. Besides this manual work some of the Besides this manual work some of the engraving is done by machinery, as, for example, the background of the portrait and of the borders and the shading of the letters, this being done by what is known as the ruling machine, which can rule sev-eral hundred perfectly straight lines with-in an inch. The intricate scroll and lacelike work around the figures on the face and the back of the note is done by a won-

derful machine known as the geometric lathe. This machine consists of a large number of wheels of all sizes and in all number of wheels of all sizes and in all sorts of arrangements, together with a complicated mechanism of eccentrics and rods, all of which is incomprehensible to any one but an expert machinist. By a proper adjustment of its parts the delicate diamond point that moves about over the face of the steel is made to work out a particular and articling with great.

a perfect and artistic pattern with great-er accuracy and much more speed than could be done by hand, and hence this del-icate and intricate part of the engraving is one of the greatest obstacles with which the counterfeiter has to contend, for he finds it next to impossible to imitate it correctly. Fortunately for Uncle Sam, the geom

ric lathe is a very complicated and very expensive machine, and the counterfeiter is generally a poor man, and even if he did manage to lay up enough money to buy the lathe it is hardly likely he would live long enough to learn how to use it properly, for there are only four men in the world who understand how to operate

Indeed the man who now has charge of the geometric lathe at the bureau of en-graving and printing is the only one in the United States at the present time who knows how to manage it, and if anything should happen to him it might tangle mat-ters up for awhile in this important branch of our Uncle Sam's big government.—St. Nicholas Nicholas.

Beindeer. M. Nordenskield, in his voyage in the Vega to the Asiatic shore of Behring sea,

# BOW IT IS DONE.

SPRINC The simple reason why the hurts of prize fighters show no sign and disappear so quickly is because in the treatment of Is

training the flesh is hardened. They can the house take care of itself." stand a blow like the kick of a horse and not show a bruise. Other men's bruises heal slowly, but if they would use St. Jacobs Oil, they would find there's nothing in the world like it to heal and restore. It acts like magic. All athleter should use it. It's the great renovator. The same with is depletion of the blood, the source of all life and strength, manifested in that rections, it will heal surely and make the parts sound again.

The Major-I'd make him apo'ogize or fight. The Judge-That's the disagreeable part of it. He'n fight witnout being made to.

THE GENUINE AND THE SHAM.

Every good thing has its host of imitators; every genuine article its counterfeits. The imitators always choose the most valuable and popular article to counterfeit. so that when they claim their sham to be equal. or as good, or the same as "So and-So's." the public may depend upon it that "So-and-So's" article is the best of the kind.

ink. Then the ink is carefully rubbed off of the surface, so that none remains ex-cept what is in the lines. When a piece of dampened paper is placed on the plate and subjected to very heavy pressure, it sinks into the lines, and when it is taken off it draws the ink out with it, and thus the picture is printed on the paper. It takes an engraver about six weeks or a man who engraves the portraits never

"That woman has bicycle on the br-in." " thought she behaved that way." "What way ?" "As if she had wheels in her head."

NOTICE.

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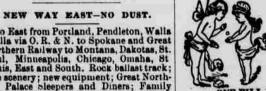
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FRANK J. CHENEY. Swore to before me and subscribed in my presence, the 6th day of December, A. D. 1886. MEN

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I can recommend Piso's Cure for Con-sumption to sufferers from Asthma -E. D. Townsend, Ft. Howard, Wis., May 4, 1894.



PREACHERS IN A BOX CAR.

An Enraged Engineer Gave Them a Bough Ride on a New Road.

CLEANING A party of sedate Maine clergymen, who recently went over the new Bangor such a trial that men say "Let and enriched, and thus sustains the and Aroostook line from Brownville to the West Branch, had a little experience in railroading that made their hair stand on end for a time. They were stowed away on the construction train at Brownville on the top of a lot of pressed hay in a box car, and spread out their blankets on the bales, expecting to have a very comfortable ride. Just before starting northward from Brown if allowed to continue. What every man be without it. I have also used Hood's ville, an altercation arose between the and woman needs in the spring is Hood's Pills, and they are the best I ever tried."conductor and engineer, and for a few Sarsaparilla. It keeps the blood vitalized Mas. F. H. ANDEEWS, S. Woodstock, Ct.

moments the air was sulphurous. Then the ride began. The engineer, a hot headed fellow, was mad all Hood's Sarsaparilla through, and when he opened the throttle he did it no half hearted or uncertain way. Off sped the train over the rough and uneven roadbed, not yet made ready for trials of speed. Faster and faster she went, the cars lurching and pitching up and down and from side to side in a manner that suggested momentary derailment and everlasting \$10 Reward for information as to the present whereabouts, or death of Ansel White, who left Santa Cruz, Cal., in 1805. Addres, Wm. Pierrepont White, Palace Hotel, San Francisco, Cal. smash. The trees beside the road flew by like streaks of lightning. The hay bales bounced about and bumped each other without mercy, and all the while the clerical party reeled and jostled like

tipsy fellows on a spree. They hung on for dear life to keep from breaking their necks or from getting crushed. Those who have tried it know that the inside of a box car does not afford many points of vantage for one to steady himself, and really all the ministers could do was to thump IAND-CASE SEPARATORS AND ENGINES each other whenever occasion offered.

The entire ran to North Twin station was made at an average not very far short of a mile a minute, and it was with a sigh of relief that they alighted \* ASK YOUR DRUGGIST FOR \* from the train. It pleases them now to say that the engineer was reported to Superintendent Cram and was promptly bounced before he had endangered any more lives or the property of the company .-- Lewiston Journal.

### Shoddy Manufacture.

Shoddy Manufacture. Shoddy manufacture, according to the improved system of production now in vogue, is said to include only such mate-rials as soft woolen and worsted rags, par-ticularly the clippings from tailor shops, on account of their clearness and softness, an essential point, however, being that they be fulled but little, as the less they have been felted and matted the less grind-ing is resourced to separate the fiber. In ing is required to separate the fiber. In addition to these clippings such stock as cast away woolen knit garments and stock-ings which have been but moderately full-ed are acceptable material. Cleaning and oiling, as may be necessary, having been resorted to, the material is subjected to the grinding operation, accompliated by means of a system of powerful steel pointed cylinders and rollers. The substances to be ground are fed onto a table or feed to be ground are red onto a table or feed sheet and conveyed to two fluted rollers, on emerging from which they are vigor-ously seized by the rapidly revolving teeth of the main cylinder, the latter containing about 1,500 strong, sharp steel teeth, turn-her at the sale of superlines. 750 experime ing at the rate of sometimes 750 revolu-tions per minute. This high speed results in tearing the rags spart and separating the threads and fiber in such a manner, says The Tradesman, that the whole is inally reduced to a soft, woolly condition.

The Unsociable.

We envy neither the men nor the women who cannot speak to a fellow creature out of their own circle or to anybody without the formality of an introduction. out the formality of an introduction. There is no computing the smount of profit as well as pleasure such persons lose by hedging themselves in with this stupid fence of fastidiousness. We have always found more of this feeling among persons who were more touchy on their social po-sition than among those self respecting persons who thought nothing about it.

round the world without being labeled



PALMER & REY BRANCH

"Faster and faster we went until the conductor evidently began to be afraid, for it was still so foggy that we could not see over half a mile ahead, and he signaled slower.

"'There,' said Eben, 'do you see that? You'll have the conductor here pretty soon.' "'Well, the fact is'-and Joe slowly

bridge before it's opened.' "The river there was navigable and was

crossed by a drawbridge, and very often we had to stop and wait on one side to let a vessel pass. When it was open, there was a red ball hoisted in the daytime and a red light at night.

"Then you are nearing it,' continued Eben, 'for there's the last post before you reach the river, and —supposing the draw is open. Joe, you had better slack up.' "'What for? The signal isn't raised.'

"'But you couldn't see it for the fog.' "'Oh, pshaw! there isn't any fog now.'

"'Oh, pshaw! there isn't any fog now.' "Yes, there is a fog now. For God's sake, Joe, don't murder us! Here, let me take your place until we get across.' "The sentence was never finished. He was standing up, looking out ahead, when all at once, as if he had been struck by a cannon shot, he dropped into his seat, and his fare turned as white as a bleached sheet, whil. he black streaks of soot and grease stood out in horrible contrast. He had seen the red signal! I whistled down brakes, and he grasped the lever and reversed the and he grasped the lever and reversed the

engine. "The conductor crazily signaled 'stop' after he had heard the whistle and when the train was running by its own momen-

"As to Joe, he saw that everything was done or being done, and he sat there like a block of marble. His drunkenness was all gone. His first words were (and he spoke like a man talking in his sleep):

"Well, boys, I'll never get drunk any more as long as I live.'

"'No, I s'pose not,' replied Eben, as he gave the lever another jerk, 'for probably you won't live more than a quarter of a minute.

"Jump, if you want to,' Joe answered 'I hope I shall die if the train gets smashed But-that craft isn't moving; the end of the bridge is swinging toward us'-

"That's so; they are shutting it. God help us, we may be saved yet.' "Sure enough, the bridge was rapidly swinging into place. The tender had evi-dently seen us coming and was trying to close the draw against we came up, but it was a doubtful case. was a doubtful case.

'We had got so near now that we could "We had got so hear how that we could see the man on the bridge working as if his own life, not ours, depended on his ef-forts. Eben was bugging the lever with all his might, and Joe had convulsively all his might, and Joe had convulsively the side of the pavement with the steer-ing gear locked and a thief jumps on to ride off with it, he will soon find him-lieve there was a single heart beat on the

"Three ticks more of the clock and we should have rolled over the abutment, but with a thud the bridge swung to its place, would only ascape notice. The conand we were on it and passing over safe and

ound. "'God bless you, Smith!' shouted Joe to he bridge tender as we ran past, and he raved his cap with wild joy. "We afterward learned that the bridge ran open to let a small vessel pass, but the ridge tender heard the train and knew by bridge conder heard the train and anew by the sound that it was coming at an unusual mate of speed. Suspecting something was wrong, he signaled the vessel to stop and closed the bridge as quick as he could, and as it proved just in time to save usail from destruction."-Exchange.

tera o ticed a marked difference between the uted to God's displeasure over the result of the great battle of Liegnitz -St. Louis Republic.

BOTH FOOD AND POISON.

When the Sun Becan

and Deadened Orb.

The ancient historians mention sev-

The Portuguese historians record

pheric explosions, rifts in the vaulted

canopy of blue above and in divers other

rare and unaccountable freaks." In the

year 1091, on Sept. 29 (see Humboldt's

'Cosmos''), the sun turned suddenly black and remained so for three hours

and did not regain its normal condition

blackening of the great orb, were noted

marked in old Spanish, French and Ital-

ian records as "the days of the green

sun." February, 1106 A. D., is noted

in the annals of marvelous phenomena

as a month in which there were several

"On the last day of February, 1206,"

astronomy, astrology and kindred sub-

jects, "the sun appeared to suddenly go

out, causing a darkness over the country

for about six hours." In 1241 the Euro-

The Wonderful Qualities of the Cassava Plant of Brazil

Among the plants which supply food for man a foremost place must be given to the cassava or manioo plant, from which Rio tapioca is prepared, being a native of Rio de Janeiro and the warm provinces of Santa Catherina, Brazil, South America, where they employ improved machinery for preparing it, making it worth 18 cents per pound in the latter province.

The height to which the cassava plant attains varies from 4 to 6 feet. It rises by a slender, woody, knotted stalk, furnished with alternate palmated leaves, and springs from a tough, branched woody root, the tender collateral fibers of which swell into farinaceous parsniplike tubers, brown externally and of great size, sometimes weighing 80

aburoc The rind being removed, the tubers are reduced to a pulp by rasping or by holding them against a wheel or grindstone. The pulp is washed with water, pressed and baked upon iron plates and now becomes Rio tapioca, while the starch floats off in the water, in which form it is imported under the name of Brazilian arrowroot.

Life and death are strangely blended in the cassava root. The juice is a rapidly destroying poison, the meal a nutritious and agreeable food. The poisonous juice of the tubers is removed by heat or washing, but if the recently extracted juice be drunk by cattle they soon die in convulsions. If it is boiled with meat and seasoned, it forms a wholesome and very nutritious soup. In Jamaica they make use of it to preserve the meat, game, poultry, etc., that are left after meals in what is known as the

pepper pot, one family having kept a pot in use for this purpose for over 20 years. - Epicure.

### For Bicycles.

An ingenious device is for locking the steering gear for bicycles. By a turn of the key, it is stated, the front wheel of the machine can be locked in any position. If the bicycle is left standing at the side of the pavement with the steerself in difficulties. The locking appa-ratus is very small. It adds but a few

ounces to the weight of the machine, would quite escape notice. The construction is said to be simple and cannot get out of order, and it can be made and applied at a small cost. - Invention.

Excited His Curiosity.

The New York Girl-Lord Dumley, did you ever hear the joke about the museum keeper who had two skulls of St. Paul, one when he was a hoy and the other when he was a man? The Englishman-No. What is it?-

Dog Chukchs, the inhabitants of the shore, and the Reindeer Chukchs of the interior. The latter were better clothed and in bet-ter circumstances. Both showed a kindness to their animals unusual in semisavage peoples.

The coast Chukchs always carried dog shoes, neatly made of bags of soft leather, with straps attached, to put on their dogs' feet if cut by the sharp snow. The herd of a Reindeer Chukch came

down from the pasture every morning to meet their master. The leading stag came first and bade him good morning by gen-tly rubbing his nose against his master's hands. All the other deer were then allowed to do the same, the master taking each by the horn and carefully examining its condition. The inspection over, the whole herd wheeled and returned to the pasture. It would be difficult to name an-

other beast of burden so tame and so efficient as the reindeer. A good reindeer will travel 100 miles a day over frozen snow and can draw a weight of 300 pounds, thus surpassing the dog by one-half in distance and two-thirds

in drawing power.-London Spectator.

Value of Illiterate Autograph

It is a well known fact that the generals of the Revolution were, many of them, exceedingly illiterate men and far from model letter writers. A very cursory view of their epistolary efforts is sufficient to convince one that they had as little regard for the king's English as they had for his subjects, and that they murdered the one while telling of the killing of the other. This, however, detracts nothing from the value of their autograph letters. In fact, it is painful to note, but none the less true, that the autograph collector is continually paying a premium on illiteracy, for the letters of a man whose feats of bravery en-title him to a high place among the nota-It is a well known fact that the generals cured it.-Marcus George Shautz, Rahway, N. J. title him to a high place among the nota-bles of the land, but who finds it less of a task to win a battle than to sign his name, make the most valuable part of a collec-tion-they are so rare and so difficult to obtain.-Boston Transcript.

American Theater Audiences

Taken all in all, American audiences are Taken all in all, American audiences are much more quiet and attentive than Eng-lish audiences, and the actors are nearly always sure of a respectful hearing. Now and then there is some annoyance occasion-ed by the chatting of theater parties in the boxes, as was the case one evening this week, when the occupants of some of the boxes talked and laughed so unceasingly and so audibly that they not only failed themselves to follow the play, in which they probably were not interested, but pre-vented those who came to the theater for the sake of the play from hearing what was going on on the stage, while the ac-tors were equally disturbed and could not, of course, do full justice to their roles.— E. A. Sothern in Baltimore Sun.

## POOR INDEED!

The prospect of relief from drastic cathartics for persons troubled with constipation is poor indeed. True they act upon the bowels, but this they do with violence, and their operation ren's to weaken the intestines, and is prejudi-cial to the stomach. Hoststier's stomach Bit ters is an effectual inxative, but it neither grupes nor enfeebles. Furthermore, it promotes diges ion and a regular action of the liver and kid-neys. It is an efficient burrier assinst and rem edy for malarial complains and rheumatism, and is of gr-at benefit to the weak, nervous and ared. As a medicinal stimulant it cannot be sur-pused. Physicans confisilly recommend it. "In its professional indoneement is fully borne out by popular expressions. Appedite and alsep are both improved by this agreeable invigorant and interative.

Consumption kills more people than rifle balls. It is more dead-ly than any of the much dreaded epi-demics. It is a steal-thy, gradual, slow disease. It penetrates the whole body. It is in every drop of blood. It seems to work only at the lungs, but the ter-rible drain and waste go on all over the body. To cure con-sumption, work on the blood, make it pure, rich and whole-some, build up the wasting issues, put the body into condi-tion for a fight with the dread disease. ( SERV and Dealers generally. 277 PALESTINE · CORN is the most prostavie crop to plant on ory land Yields 2,500 lbs shelled corn and twelve tons o todder. Can be planted till July and harvester with ordinary machines. Send \$1 per acre to seed desired to Sacramento River Nursery Co... DROPSY

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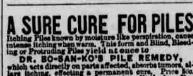
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SAPOLIO

and those men or women who have the good sense to recognize this fact and act upon it not only are educating themselves, but conferring that pleasure which we are all bound by the common ties of humanity to exchange with one another. It seems to us that it is only the snob and pretender who take a different view of this question .- New York Ledger. COLUMBIAN PRIZE WINNERS. CONOVER

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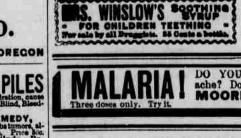
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