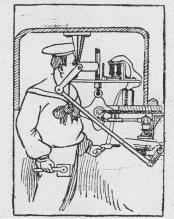
How Twelve-Pounders on Battle-

ships Are Aimed and Fired. Few people are aware of the methods employed to sight the large twelve-pounders on modern battle ships, says the Philadelphia Record is generally supposed that the gunner sights these immense cannon as he would an ordinarary rifle. Such is not the case, however. An illustration of the method employed is shown here, the apparatus being the invention of a gunner in the United States Navy. The apparatus is exceedingly complicated and practically useless in the hands of In one hand the gunner grasps an ordinary pistol. This pistol is connected to the firing apparatus of the gun. Above the pistol is a sighting tube and a number of reflecting glasses. By means of re



Sight the Gun.

flecting glasses the surroundings are brought into the range of the pistol.

The gunner need only sight the pistol to hit a certain object on the reflecting glasses. As he brings the pistol into the correct range, the large gun which it controls is also brought into range. Pulling the trigger of the pistol discharges the gun.

The Skipper Ashore.

"Good men to have in charge of any sort of work that involves the handling of men, and especially good for such work that is also more or less outdoors, as for instance the superintendence of plers and the care of or work on any sort of boats, and work in and about warehouses, and that sort of thing," said a steamshipman, "are retired captains and mates of vessels.

They have to be good and able men to get up to places such as they have held on the sea, and the qualities that have made them successful affoat are equally valuable in any work they may be called upon to do, and especially in such work as I have indicated ashore

"They are accustomed to com-mand, for one thing; they can make men work and keep them going; they can get things done. They are likely to be able to pick out the right sort of men for bosses, if they have control of many men, and they know

how to handle things and how to stow things to the best advantage. "They are all the time watchful and alert, as they have all their lives been accustomed to be at sea, of ne cessity. Instinctively or by observa tion they know the weather in advance and always take due precau-tions regarding it; they never get caught napping.

'Accustomed to taking no chance "Accustomed to taking no chance, but to having men on watch night and day at sea, they set watches just the same on land, and fire, that special terror to men on ship, they guard against and look out for here with the same care that they would

You see, the man in command of a vessel lives in a world of his own, where everything depends on him, and where he must look out for everything, and so he develops constant watchfulness and resourcefulness in emergency and readiness in action; he must be in the nature of things an able man, and that's why the sea captain or mate, retired perhaps for some disability that may impair his usefulness at sea, may make in the right place an especially good man ashore

Metallizing Wood in France

An interesting method of applying preservative to railway sleepers d timber is described in L'Industrie Electrique of Paris. The process consists of the artificial metalliza-tion of the pores of the wood, the metal being deposited electrically. In brief, the method requires, first, the application of a solution of some salt—sulphate of copper, for exam--by placing the wood immersed in the solution in a closed chamber and subjecting it to pressure. The wood is thus thoroughly impregnated with the solution. It is then taken out, and piled up in layers in a concrete reservoir. The first layer of timber is immersed in the same cop-per sulphate solution, and also rests on a layer of jute or other fibrous material, which is supported by an electrode made of woven strands of copper. Similar electrodes are placed between each layer of timber as the piled up to the desired height, ernate electrodes are then connected to the opposite poles of an alternating current supply, and the current is allowed to pass. The action is said to decompose the solution and set free metallic copper in the pores of the wood. Besides the preservative action in thus closing the pores, it is said that a certain amount of copper sulphate is permanenetly retained in the pores, giving an additional and a decided pre

servative effect.

BIRDS WITH COLORED HEADS.

Mistake in Classification Curious

Caused by Pollen. Many birds frequenting flowers for honey or insects are thus liable to get their heads covered with pollen, says the London Globe, since the pollen of different flowers varies in color a bird may become yellow-headed. red-headed. blueheaded, etc. This led to a curious mistake in the case of a New Zealand bird. This bird was a honey-sucker and a haunter of flowers. Now, in the early summer it visited most frequently the flowers of the native flax, and later in the year fed chiefly on the fuchsia. The pollen of the former is red, and of the latter blue. Hence in the early summer the bird appeared with a red head, and was named the red-headed honeyseeker. But when later in the year it went to the fuchsia its head was stained blue, and it was called the blue-headed honey-seeker. Thus, for a long time this bird was thought to two distinct species, and only rently was it found that the red headed and blue headed were one and the same, and that the real color of the head was blackish brown.

For Delivering Mail.

Devices whereby express trains collect bags of mail at stations on the road without stopping have been in use extensively for a number of years. Naturally, those first used were not entirely satisfactory, and inventors have been endeavoring to improve upon them. Many of the devices patented, although success devices patented, although success ful in every way, have been so com-plicated in construction that their ise became impracticable. This can not be said of the one shown in the illustration, which comprises, a supporting frame in the center of which



Weight Operates Shovel.
pivoted the shooting mechanism The latter consists of a shovel having at one end a large bowl in which is placed the mail bag. On the end the frame opposite the mail bag pivoted weight. This weight is heavy and is released by a projection on the passing train. As the weight descends it strikes the handle of the shovel with great force, swingnear the ground the mail bag continues on its journey through the dir, entering the open door of the mail car as it passes the station.

Mirrors That Flatter.

"It is not enough to make tru mirrors," the dealer said. "If tha all, ours would indeed be mple business.

'Dressmakers and milliners quire mirrors of all sorts. They need, for example, a mirror that makes one look taller and thinner. When they dress a fat, short patron in one of their new hats or suits they lead her to the mirror, and, she is so surprised and pleased with the change for the better in her looks that straight off she buys.

'For masseurs I make a mirror that, like a retouched photograph, hides blemishes, wrinkles, scars. The masseur takes the wrinkled face of masseur takes the winked state of the some rich old woman, steams it, thumps it, pinches it, and smacks it late for a sail to-day, boys," Will was for an hour, and then holds up to the mirror that gives a blurred emish hiding reflection. The woman thinks her wrinkles are gone, and is happy till she gets home to her

own true mirror.
"Altogether I make some twent, varieties of false mirrors. Sales and saleswoman in millinery dressmaking establishments can double and quadruple their business they are quick and deft in their lection of the mirror that flatters each patron best.'

Etiquette in London Clubland.

In some of our ultra exclusive clubs it is a serious breach of etiquette for one member to speak to canother without obtaining a cere-monlous introduction beforehand, says the London Chronicle.

A painful case has just occurred in a certain old established and extremely respectable Pall Mall cara ie. It appears that a newly member, in callous defiance of custom, ventured the other afternoon to make a remark about the weather to a gentleman with whom he was not personally acquainted. The recipient of this outrage glared at its perpetrator

'Did you presume to address me, sir?" he demanded, with an awful

I did," was the defiant reply "I said it was a fine day." The other digested the observation thought-

Then, after an impressive pause, he turned to its bold exponent.
"Well, pray don't let it occur again,"
he remarked, as he buried himself once more in his paper.

OUR BOYS AND GIRLS

ARDY TOMM

Tommy Brown was always late to school. He was such a heedless be that he usually forgot the time and played along the way. Nothing could cure him of this bad habit. Ever when his teacher kept him in fig ball game, in which he was care to make him write a thousand ti "Remember this: Le punctual as "Remember this; Le punctual as Li sun, though others lag," he was hit

the very next morning.

One dreadful day, when he was rowhole hour late, Miss Amy sent him into the girls' room to stand on a stool for two hours and wear a care printed in big red letters: Tommy."

After that Tommy thought he never would be late again. But no soon forgot

last his mother thought she would teach him a lesson.
"Tommy," she said one day.
"would you like to give the boys a

sailing picnic to Idlewild on Saturday "Would I?" cried Tommy. "Well,

I guess! May I ask the whole push, mother?"

"Oh, Tommy, dear, why are you on, rommly, dear, why are you so slangy? Yes, ask all the boys. Let me see, there are twelve of you, are there not? Give me the list and I will telephone to their mothers."

Saturday was clear and cool, and Tommy was at the wharf bright and early. Not a boy was there. Nine o'clock came. Still not a boy was to

"Mother," isaid Tommy, "where do you think those fellows are? They're as mean as mud to be late at my party.'

well, Tommy, they are only a little late, and that does not count,

you know. Tommy looked rather queer, for that was his own daily excuse.

By a quarter past nine Sammy Bangs came; at half past, Jack and Ted Thompson; still later the three Masoner boys. At half past ten only seven of the party of twelve were on

How those waiting boys did fuss and fume. The breeze was fine for sailing, but Mrs. Brown said it would be impossible to start without all the guests.

Every little while Tommy growl-

ed, "Those are just the rudest fellows; catch me asking them to a sail again!"

"Oh, surely not rude, Tommy; only a little late, you know." Mrs. Brown would reply.

All aboard, boys," called the skipper. "If you want a run to Idle-



Tommy stood before the school wild to-day, we must be off, as I've another party at 11."

"Please, mother, can't we go without Will Briggs? He's just horrid to be so late."
"Late! Why surely that's nothing,

Tommy," replied Mrs. Brown.

Just as the captain called "Too seen running down the hill. The disappointment was terrible, but there was nothing for the party to do but go home, after a whole morning's wait on the wharf.

How did it happen? Mrs. Brown, had arranged with the mothers the boy to have each come at a different hour, might have told.

But Tommy had had his lesson learned that being late did count. After that Saturday he was on time at school every day for the rest of

e year. When he had become very punctual, his mother let him give another sailing party for "the push." That Saturday every boy was on the dock promptly at a quarter before nine. What a glorious time they had sailing and crabbing, and such a good lunch at Idlewild.

Willie's Lion Hunting.

"When I grow up," said Willie, "I am going to Africa and kill lions a spear.

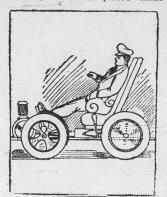
"Why not kill them with a gun, Willie?" asked his father. "Why, all the natives kill lions with a spear, you know, and I would-n't want to have the advantage of them. I would want to fight the lions hand to hand."

"But suppose you ran upon two lions," said Willie's father. "While you were fighting one hand to hand, the other could slip up behind and bite a piece out of the back of your

That put the matter in a new light. Willie thought over it a while and then decided perhaps after all it was better to be a pirate. PECCEIAR MOTOR CAR

Built for One Passenger Only and Steered by Foot.

The illustration below shows a new type of motor car that should in the near future have many support-els. It is a foreign invention, and on account of its peculiar construction attracts attention immediately. In size it is about as small as a motor car can be made, there being seating capacity for only one passenger. There is also a total absence of complicated steering apparatus. The operating motor is placed imme-



diately in front of the rider. One lever is sufficient to regulate the speed and is placed in close proxim-ity to the seat. Probably the to the seat. Probably the mo peculiar feature is the method of steering. This is done by means of the feet, very much like a young boy would steer his express wagon. The hands are at all times free, the ride: being able to enjoy a smoke with pleasure. Other peculiar feature are the size of the wheels and the of the frame above the ground.

When the Kaiser Travels.

Even when travelling the Kaiser is at work, for being the chief of a great nation he must keep the Gov-ernment machine in motion, says the Review of Reviews.

A large staff of Government off. s accompanies him. A high off-from the Foreign Office attends to the duties of foreign politics, makes reports on the affairs of state, receives the orders of the sovereign and keeps up the communication between the Kaiser and the Chancellor, Then there is a privy councillor who takes dictations, deciphers telegrams and transmits the same. Besides, two adjutants ac-

company the suite. For the very lively exchange of messages between the Kaiser and the Chancellor special arrangement is made by the imperial postal depart-Telegraphic messages must be presented at once to the Kaiser. When necessary to be deciphered a postal official is in the nearest telegraph office to attend to this duty

When the Kaiser is out hunting a special messenger goes after him in case urgent messages must be deliv-ered. Even at a late hour in the ered. Even at a late hour in the night the Kaiser has ordered that regardless of his own convenience he shall be awakened if important communications arrive. In additions to these telegraphic reports, mail mat-ter, which arrives daily by courier, must be answered; then, also, at tention must be given to the report Ministers from other department conferences must be held at all times of the day, and long dictations given in the study where the Kaiser is stopping, be it on board of the Hohenzollern or in his sleeper.

Added to this must be reckoned the hours when he is working alone, consisting of the reading of news-paper clippings, the active corre-spondence with his wife, from whom he receives a daily letter, and the correspondence with royalties or

Hunt for a Hangman.

The British army was once difficulties through the lack of in difficulties through the lack of a hangman. Murder was committed by a soldier in the Crimea, but no-body could be found to carry out the body could be found to carry out the

free discharge would be granted to the man undertaking the task. last a man did volunteer. He was a newcomer to the army.

On the night prior to the date fixed for the execution they locked up the hangman in a stable to keep him safe. In the morning the party at the gallows waited, but there was no hangman. He had gone mad during the night, or else he was now

simulating madness.

The officer in command turned to one of his Captains with: "Captain, you will have the goodness to hang the prisoner!" The Captain changed countenance, but he pulled himself ants with: "Which of you will hang this man?"

And to spare his Captain, one of the men volunteered. He afterward had the satisfaction of flogging the man who had volunteered and failed.

Protective Colors of Animals.

I seem to trace a faint clue to the connection between the protective the protective coloring and the mind in the intense desire of the fox to remain concealed and unseen. That this is a possible theory we infer from the fact that a blind animal does not change color Put a dozen minnows into an nary white wash hand basin and they will in a very short time be of a pale color. If over one no change passes we may be tolerably certain that it is blind .- Dale's "The Fox."

THE WAY OF THE TRAIL

Brucie Annie Dunne.

The full moon rose over the wide desert, turning the chaperal into tawny beauty.

The man got to his feet unsteadily, with a look of fear in his eyes. His glance stared across the grim level, down the faint, white line of the trail, then back, to fall upon the face of his companion, and the look deepened.

Sleeping? He knelt feebly, again placing his hand upon the face of his companion and the look deepened.

As he did so the always smoulder-ing wrath of his soul toward that man-miles ahead now-that man who had robbed them, swelled to its height. He had always mistrusted him, but his hate had never as sumed strength as this. He became conscious, as he had never been before, that that man was responsible for it all, the strayed pony, leak water bottle, even to the crown. horror and certainty of his-and t

His distorted brain wrought upo the knowledge that plainsman ow: of the desert, knew it as well as own name, had told him so-knew spot of his and his broth mine of golden ore back there far-away hills. He had left them slow death, to claim it; taking only remaining horse, the last dr of water.

"But we'll live, and we'll get better of him yet," he muttered the unheeding form.

A long time he sat there, motiless as the unconscious man in arms, staring down upon the hypn calm of the blank features, formi anathemas in his heart.

As he watched the stiff caked ! began to move, and disjointed wo whispers, half-formed sentences from them, peopling the penetrat silence with fearsome sounds.

'Jim-tell her to-wait for-me We're rich!—gold—yellow gold! Tell—her to wait—she promised—gold—yellow gold!—"

Then silence, a rhythmic pause, and the beat of the words again.

A groan choked past the lump in the throat of the man listening, and by and by his fevered eyes lifted in a prayer, slowly, up to the drowning

Save him, oh, God!-not me. Save him!"

Over and over these words fell, half unconsciously, while he wiped the damp forehead as gently as a woman would.

Releasing his left arm cautiously he laid his burden back on the out-spread coat and stumbled over to the dead horse. With fumbling hands he removed the saddle blanke and dragged it across the few ro so to the sick man's side, where, around his head and shoulders, by the aid of this and a chaparal bush, he built a sort of screen to shield the staring

eyes from the light of the moon This done his gaunt figure swayed bit as he stood for a moment and looked down at the helpless, w pe ing wreck of him who had o been bigger and stronger than then with a muttered word he turne his steps forward to the dim, whi trail, tangling and twisting its tuous way, faint and fainter, on the point of disappearing uncertaint

All night the dragging feet doggedly, making little heads a stopping every now and then at she and shorter intervals, to start again with a flickering spurt of strength as the thickening sense of neces urged, pursued by the thought of form under the chapparal bush, bac there-somewhere.

flooded the east the lone figure ceased to stumble and hitch along; it sank down on the crest of a sand dune and sat bowed over its knees

The sun came over the desert, full and red, and flamed into the face of the map, who stared and nodded. The man shivered, too, for the fever had communicated itself to him and had full control, while the grip of its haze

It was announced that £20 and a cles, maddening waves, chasing each other, deep into the cavernous eves that stared into vacancy; and by a by wrought in them the cowed, help-less appeal of a dog's under the lash of his master. He moved his head to and fro, and closed them, blinkingly. They opened again, shut, opened and fixed upon a dark spot directly in the path of the grinning sun.

It grew large and distorted, that spot, to the eyes watching; which opened wider, staringly, flashed and steadied, and a great cry rose to man's lips—choked—soundless; w a sudden spasm, wild and glad, sw his face, and he dropped weekly to his

"Jim-it's Jim! He never mean. to desert—us. He—Jim—" With this strained, thickened whisper on his lips he fell face downward in the

For a moment he stirred there, then lay quite still, th eglad light on his face; just as the two men in the prairie team drew up, and one swung down from the creaking seat, a brim ming water gourd in his haid.

Regulating Railroad Rates. The Legisdature of WWashington at its latest session passed a law making the maximum railroad fare for adults 3 cents a mile and for children 146

One Greenlaind whale weighs as much as 88 elephants or 440 bears.

Heart Strength

Heart Strength, or Heart Weakness, means Nerve Strength, or Nerve Weakness—nothing more. Positively, not one weak heart in a hundred is, in itself, actually diseased. It is almost always a hidden tiny little nerve that really is all at fault. This obscure nerve—the Cardiac, or Heart Nerve—simply weeds, and must have, more governing strength. Without that the Heart must continue to fail, and the stomach and kidneys also have these same controlling nerves.

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