

Points in Gardening. easily grown as early beets, and they to be reseeded the following year. are luxuries compared with the field kinds. Carrots and parsnips are favor-Ites with many, but the seeds should be planted early. A hundred strawberry plants will entail little or no labor. and are not only ornamental, but usepotatoes should be omitted. Try one tom. This rule is often violated, some more enjoyment with a garden.

To Cut Up a Beef. The following diagram shows the number and style of cuts into which a beef is divided at the Chicago Stock Yards. The average weight of each cut absorb heat, and thus warm the land and the price paid per pound for it at to which it is applied as a dressing. It



wholesale are also given in the dia- must not have a rough clay or hard-pan gram. It will be seen that there is a underneath. Perfect beets demand not the various parts, and that only a small soil characteristics, but, as well, freeportion commands the highest price. It dom from standing water for any is to be said of the pieces into which length of time and from such stones a steer is cut up that the choicest bits as would interfere with cultivation. sell too high and some of the other portions too low.

They are everywhere giving out as by tail or otherwise of an ox-like ap-signaling; and, paradoxical as it may shade trees. In fact, the maple tree pearance unless for the feed lot. This rarely find a perfect specimen standing, able piece of information, and the alone on the lawn or in the street. Let writer wishes some would try it."us go back to the old habit of having Journal of Agriculture. a maple grove, and making our own sugar. Whether the beet-sugar enterprise will prove a success or not, we know that maple-sugar making is a natural enterprise throughout all the shown in the accompanying illustra-Northern States. There ought to be fifty pounds made where there is one made now. Those who are fortunate enough to be in condition for making sugar this spring should not be turned aside from it, and hope to make more money by growing beets. Let us have the largest possible crop of maple sugar. It will pay better at 8 or 10 cents a pound than beet sugar at 4 .-New York Independent.

Care of Form Tools. Tools on the farm may be costly when they are not kept in place. When the hurry of work comes the implement most required may be out of its location-really lost-and a new one must then be procured. Some implements may then need repairs, which should have been procured weeks before. Cases are known in which farmers who have changed locations found themselves loaded with tools that they did not suppose they had, the clearing light those that had been put in some get them, and though intending to be careful they endeavor to keep in remembrance the location which they cannot recall. An inventory of farm implements and tools once or twice a year would change such conditions.

Evergreen Trees from Seed, Evergreen seeds may be planted in beds of leaf mold mixed with sand. The seeds should be covered with a little sand wet down, and clean hay put over the beds, until the seeds germinate. After the plants appear they may be shaded with screens of laths, watered in dry weather, and have dry sand sprinkled around them in wet weather to prevent too much dampness. Seeds of evergreens are often to more than pay for shingling the germinated and the plants well started leaking roof over them, and they will only with great difficulty, and skill is requisite of success.

For Early Vegetables. If you have a south slope, plow heavy furrow on the north side of the row, throwing the soil as high as possible. Turn a light furrow slice back against this. Rake the south slope to any pitch desired, and plant midway This secures an earlier drying out of the soil, especially if rather coarse however, only the best and choicest ar structions carried in the "key" books of placed in vessels containing clear wamanure is covered inside the ridge, ticles should be sold.

which also assists in warming up the land, and permits more direct rays of the sun, increasing earliness from ten to fifteen days. To level land again, turn top of ridge back into the bottom

which were good one year are eaten out by grubs in the root in fall, or are destroyed by winter freezing, making bare places. These are not only un-A garden is not complete unless it con- sightly, but as nature abhors a vacuum, tains a full variety of vegetables. It such places are quickly filled up with should not contain anything that is not weeds. If there are many such places, desired. Peas should be grown for it is better to apply what manure can early, medium and late pickings, and be spared and reseed. But if there early and late cabbages should be in are only a few, harrowing the bare the list. Tomatoes are essential in all places and throwing on some grass seed gardens. The tomato is a plant that and a top dressing of manure will will have blossoms and fruit at all probably make a sod by fall. But no stages of growth, even to ripening, at crop of grass can be expected from the same time bearing a continuous such land this year, and if possible, it crop until frost. There is nothing so should be plowed for a year's cropping,

> The Draught of Chimneys. Many chimneys have defective

smoke condensing on their sides, besides throwing a good deal of smoke through the lower rooms of the house.

Charcoal for Lawns. The dark color of charcoal makes it may also have considerable manurial value, as the charcoal easily absorbs ammonia, and if soaked in strong manure water from a compost, it will carry the ammonia to the lawn in less offensive form than in the manure, which is so often used for that purpose.

Cultivation of Beets. Clay loam is often the finest beet soil, but on account of subsoiling and because of the need of good drainage, it wide range in the price per pound of only depth, mellowness and fertility as

Selecting a Calf.

idea for selecting a calf which is inmirably in groves, but you is a simple way of ascertaining a desir-

Shippers' Improved Milk Can. A milk can for shippers that will always hold a given quantity of milk is



terior corrugated skin or covering, and within it the regulation can.

litigation.-Philadelphia Record.

Sheep Feeding. Feeding sheep for market should be a separate business from simply raisup of goods for removal bringing to ing them in the usual manner. They should receive clover hay and a liberal out-of-the-way place. Another careless allowance of ground grain, as well as class of farmers is that which stores be sheltered in a large yard, in order the tools in places so safe that they for- not to have them travel over the fields while fattening, the object being to fatten them quickly, and sell as soon as they are ready.

Marketing Parsnips. winter, and in the Southern States they ing the same numerals and all the letare allowed to remain in the ground ters of the alphabet, the two remaining until wanted, while in the northern -the wig-wag and the whistle are States they are dug late in fall and based upon the familiar telegrade codes stored in trenches. They are shipped of dots and dashes. The semaphore in in small ventilated barrels, the tops our service can hardly be counted upon having been removed and the roots in time of war, for the New York is the washed when necessary.

Shelter Saves Food. A herd of twenty cows that are not properly sheltered and kept warm in winter will eat enough additional food also lose more than enough in the product of milk or butter to paint the building. Shelter saves food and promotes

Have a Trade Mark.

Business men have trade marks; so should the farmer. The farmer who 12,000 different "hoists" or combinauses a trade mark, and puts it on every- tions, varying from one to two, three, thing he sells in packages, advertises or four flags, not counting the penfrom top to bottom on the south side. his goods and creates a market for his nants. These hoists indicate the numproducts. In adopting a trade mark, bers of certain established orders or in-

HOW SHIP CAPTAINS SEND SE-CRETS ACROSS THE WATER.

This Manner of Giving Orders Is Now Be Sent at Night-Electric Lights that Talk.

Signals of Ships.

Of all the things that went down in the Maine, nothing was more vital to the navy than the safe recovery of the signal books from the captain's cabin. Should they have fallen into the hands of the Spaniards, our secret codes

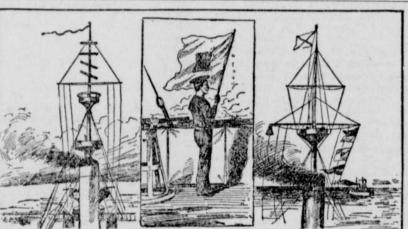


FLEET SIGNALS OR FLAGS.

NAVYSIGNAL SERVICE mon exceptions, these orders are not memorized. Each ship carries a number of signal books or "keys" for various uses-all arranged in the same manner and perhaps many having duplications of the numbers, and it is necessary first to tell in which "key" the answer is to be read before the signal a Matter of Science-Messages Can can be properly translated. In one book "4136" may mean "Attack," and still something else in the cipher book. On going into action covers weighted with lead are slipped about them, and it becomes the signal officer's duty to cast them overboard and beyond the reach of a victorious foe.

Good for the Cow.

The other day a bicycle rider found would be common property and a whole a rare chance for sport. He was near corps of Spanish spies, right in our ser- the suburbs of Worcester. A farm vice, could scarcely embarrass us more. Wagon appeared, with a cow trailing behind, patiently submitting herself to be led by a rope from the front seat. The bicycle idiot rode up to the cow and began a series of tactics to annoy her. He punched her in the ribs, yelled in her ears and dodged around her legs. Occasionally he fell back and taking hold of her tail, attempted to make her tow his bicycle. The cow objected and kicked viciously. This only amused the rider, and he directed his attention to an annoyance that would induce her to continue kicking, meanwhile keeping out of reach of her heels. Finally the animal stopped kicking and appeared to become indifferent. Some spectators on a passing street car obdraught because more pains is taken New books would have to be issued, served, however, that she had turned to make a smooth outside where the and before every ship could be notified her head so as to keep an eye on her mason work shows, than on the inside, and supplied anew with other "keys," persecutor. It took her a few minutes ful in a garden. Before next spring the where the efficiency of the chimney to months of priceless time would be lost to get the range, and meanwhile the bed will multiply to over 1,000 plants. carry off superfluous smoke depends on and our service severely crippled. Sig bicycle idiot grew bold and reckless, They should be set out as early as the how the chimney was constructed. A naling between ships is as old as the encouraged by her quiet behavior. Sudland will permit. Unless the garden is well-proportioned chimney should be at hills, almost; but only within recent denly the animal darted forward, so large, such crops as sweet corn and least as large at its top as it is at bot- years has it become the scientific ne- as to get a slack in the rope, stopped cessity it is to-day. A ship without short and let both heels fly. Her aim or two plants, for experiment, of pep- people having the idea that if the aper- some means of distant signaling is even was sure this time, and the bicycle went per, okra, eggplant and cauliflower, if ture at the top is made smaller the worse off than a dumb man without out from under the idiot's feet. The not accustomed to growing such, and smoke will be forced out more violent- arms, for she is not only pitiably mute, street car spectators raised a shout, they will surely be added to the crops ly. It may seem to be so, but such but dangerously so as well. It is sel- the motorman rang a chime with his next year. The greater the variety the chimneys will soon clog up by the dom possible, even in times of peace, at gong and the farmer and his boy whip-



SPEED CONE AND FLAG SIGNALS.

THE INFORMAL

"SEMAPHORE."

sea to hall a passing vessel by speech, ped up the horse. The impassive cow and in times of war to do so would be only wiggled her ears and gave an impractically denied by the conditions of aginary fly on her side a triumphant service. Some sure and accurate means slap with her tail. The wheel was so A correspondent suggests a novel of visual communication must serve twisted that the rider had to walk instead; and with us we have recourse home as helplessly as the cow was be-Is it not possible to utilize our maple | tended for a milk cow. He says: "Nev. | to colors, form and sound. At present | ing led. He will not sue the owner of trees more fully for making sugar? er keep a calf with a thick, short, stub- we have no less than eight means of the cow.-Worcester (Mass.) Gazette.



ROCKET AND SEARCHLIGHT. Then, no matter if seem, we are most in the dark by day. the can should be light, for then we must depend for dented in transit, the greater part upon the doubtful flutthe interior recepta- tering of our flags, and the questionacle will still hold its ble interpretation of color and form alteration of capa- easily to confuse. At night, backed by city in cans when the deep setting of gloom, it is an easy they become dented matter to flash for miles our messages or battered is a very with accuracy and quickness and be serious one in the sure of their proper reading. For day MILK CAN. dairy industry, re- use-setting aside that polyglot intersulting in frequent disputes and much national flag code common to all maritime nations—we have the service flag code, the wig-wag or single-flag code familiar to nearly every modern schoolboy, the semaphore code, an elaboration of the railway signals, and the whistle code to be used either day or night in foggy weather. The use of the speed code, hoisted on the yard arm to give the gradation of concerted speed, can hardly be called a code. Aside from the flag code, consisting essentially of thirteen elements or flags representing the numerals from 9 to 0 and three repeaters-substituted in place of The demand for parsnips is best in duplications, and the semaphore coveronly vessel so fitted, and the rest of the ships are practically unpracticed in reading it. In the British service, the semaphore is one of the most tried daytime methods of signaling; and the rapidity and accuracy with which they can dispatch messages is truly wonder ful. With our blue-jackets they look upon it as something akin to marine railroading, and are not complimentary in their remarks. With the thirteen principal flags of our day code, supplemented by a half dozen designating pennants, it is possible to make about the service, and, with very for ---- toe

THE AMERICAN GIRL

One Artist Declares that There Is No Distinct American Face.

Recently the New York Herald invited several distinguished artists to draw sketches showing the conception of each of the distinctive type of American young woman. The accompanying picture is Mr. W. T. Smedley's idea. But it is not offered as a distinctive type, because Mr. Smedley declares that there is no distinct American face. 'The American girl," he said, "is American mainly in general get-up-in manner, bearing and dress. Were you to dress a number of men or women of different nationalities exactly alike you could not, I believe, easily pick out the representative of one from the other. I've seen Russians who looked like Uncle Sam and Americans who looked like original shape. This which distance and refraction tend Russians, and I've known any number of similar instances. Similarly in a na-



THE AMERICAN GIRL

tion, its beauty often comes from the outside; yet the nation gets the credit for it. Nor is the highest beauty to be found among the aristocracy, but

among the 'people'" How Chinese Catch Fish.

The drug used by the Chinese in catching fish is Coculus indicus, which is powdered and mixed with dough and scattered broadcast over the water after the manner of sowing seed. The fish seize and devour it with avidity and instantly become intoxicated and turn up by hundreds on the top of the water. They are then gathered up and

SPAIN'S AMERICAN POSSESSIONS.



Spain owned one hundred years ago a great part of what is now the United States, all of her territory on the Western Hemisave Brazil, and the Guianas, and many of the West Indies.

1898.

Within one hundred years Spain has lost all of her territory on the Western Hemisphere, except the islands of Cuba and Puerto Rico.

sight and friendly ships are passing in and out, the break is left open at the shore station, so that a mine if struck will not explode.

The contact, electro-contact and observation mines can only be used in comparatively shoal water and in places where the current is not very strong. When the depth of water is considerable, or when the current is rapid, "ground mines"-heavy mines similar in construction to the others, fact, the Katahdin is about the only but resting on the bottom-must be used. Ground mines have been plant- sembles the old-style ram Merrimac ed in sixty-five feet of water. For this only in the use of armor, the employdepth a charge of about 1,200 pounds | ment of steam power and the pointed of guncotton, equivalent to 4,800 pounds of gunpowder, should be used. The method of firing the ground mine is very simple and ingenious. The mine and her beak or ram, which is below held in position on or near the ground by a heavy anchor or sinker. length of about 254 feet. Other statis-Two observers are usually employed to ties of the vessel are: Displacement determine when the enemy is directly over the mine. The mine is then exploded by means of electric cables.

High explosives like guncotton, dynamite or explosive gelatine are used in submarine mines at present. They are superior to gunpowder in that they are not seriously affected by moisture. A leak in the case containing the charge will not render it useless, as would be the case with gunpowder water. Only her smooth turtle back, mines. Besides, the high explosives covered with armor plate and surare from four to six times as powerful mounted simply by a small conning as gunpowder. The pressure necessary tower and a smokestack are visible. to blow a hole through the double bot- The tower is made of steel 18 inches tom of a modern ship has been esti- thick, and unless squarely hit by a mated to be between 6,000 and 12,000 heavy shot at close range, is proof pounds per square inch.

marine mine defense is to check the covering of armor plate the Katahdin first advance of a naval enemy against is equipped with slight means of ofa seaport, thus giving the defenders fensive or defensive character. She time to concentrate their ships to meet carries four six-pound, rapid-firing the attack.

An Instrument of War.

THE RAM KATAHDIN.

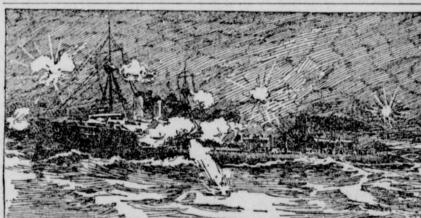
The Powerful U. S. Turtle-back Ship

Recently Placed in Commission. The belief prevails among naval officers that in a naval fight the country would be electrified with the havoc caused among the enemy's fleet by such a vessel as the Katahdin, No modern vessel of this kind has ever been used in actual warfare, and, in craft of her kind in the world. She resteel prow.

The Katahdin has a length on the load water line of 250.9 feet the water line, gives her an extreme under normal coal supply, 2,155; tonnage, 582; extreme breadth, 43.5 feet; mean draught, 15 feet; indicated horse power, 5,068; speed, 16.11 knots; capacity of coal bunkers, 192.70 tons. The Katahdin is propelled by twin screws. Her full complement consists

of 90 men. The most peculiar feature of the Katahdin is her concealment under against any attack. Aside from her The important function of the sub- dangerous sharp beak of steel and her

guns, which are intended as defense against torpedo boats or boarders. Her speed is low, hardly higher than The bagpipe, whose stirring music that of a battleship; but with her trefired the blood of the Gordon High- mendous momentum and powerful prolanders as they scaled the heights of pelling force behind a sharp steel prow. Dargai, enjoys, though it is not gener the Katahdin is calculated to do a lot ally known, the unique distinction of of mischief among the enemy's fleet.



THE RAM KATAHDIN IN ACTION.

vember, 1746, a James Reid, of Angus, wanting. was tried for taking part in the rebellion. It was proved for his defense that he had never carried arms of any kind, but, on the other hand, it was shown that he had for some time officiated as a piper in a Highland regiment. It is not unlikely that he had been pressed into the service, for we are told "he behaved very devoutly, prayed fervently, and sang part of a psalm." Notwithstanding these most untraditional piper traits, however, the court found poor Reid guilty of high treason, and sentenced him to suffer the punishment which that crime involved. It was held that a "Highland regiment never marched without a piper, and, therefore, his bagpipes in the eye of the law was an instrument of war." There is little wonder, in the face of such a decision, that Pennant when he came north later in the century found the

Li and the Woman Doctor. Li Hung Chang's visit to England is said to have had the most beneficial effect on the destinies of women in China. Since his return he has appointed the first Chinese lady practic-

"bagpipes becoming scarce."

ing medicine in her own land to be physician to the women of his household. Two delegates, Miss Wang and Dr. Eng. are to represent the Celestial empire at the women's congress in London in 1898. The latter is the daughter of a mandarin who was converted to Christianity and graduated in an American university; and she obtained the degree of doctor of medicine at the Women's Medical College, Philadelphia. She has been so successful in the healing art that she is now known as the miracle lady .- St.

James Gazette. Queer Restaurant Sign. In Sweden the railway stations where meals are served are known by opposite the name of the station.

having been declared by a court of law | The ram, being situated belowthe water to be "an instrument of war." In an line, is directed at the most vulnerable early volume of the Scots Magazine we part of a battleship or cruiser, where find it reported that on the 15th No- armor is either thin or altogether

> Taking Life Seriously. This exceptionally clever photo of children was taken in Dublin. The two mites who in their garb of monk and nun look so solemnly out on the



SISTER MARTHA AND BROTHER PAUL.

world in general are aged 4 and 3 respectively. Brother Paul has the expression of one meditating great truths and Sister Martha is as benign as though fifty years older.

Changed His Opinion.

Spinner-I'm surprised to hear you talk as you do about Belle Sprocketts. You used to say she was the most foolish girl you ever knew. Now you simply rave over her. What's happened, old chap?

Scorchley-What, me say she was foolish? Never! Why, say, do you know that she's rode her wheel every day this winter?

When a man is making a night of it he usually discovers that the darkest hour is just before the dawn.

He may be called Senor de Lome in the picture of a crossed knife and fork | Spain, but his name is Mud in this country.