



of at least one hour, during which time airship facilities of the service. He the flying machine must gemain contin- said: uously in the air without landing.

ength of time.

nobody else has bought it thus far. He says that the bidders must furnish | certainty and dispatch, ble that the machine shall be capable in an ordinary wagon.

trresponsible and visionary persons who set up claims to be inventors of practical flying machines, bidders will be per cent of the price of the machine. In camp. This mode of warfare is pro- \$1,000,000.—Chicago Inter Ocean.

ed permission of Congress to spend \$1. about his trip from St. Louis to the 000,000 or so for coast defeuse airships. Chesapeake bay in a balloon, the con-The most exacting requirement is test being planned by the Aero Club sued in the proposal by the War De of St. Louis. Incidentally he mentioned partment is that before acceptance a the determination of the United States trial endurance flight will be required signal service officials to increase the

"There is no longer any question Right here is where the inventors of about the airship being the best means flying machines "fell down" with the of obtaining information about an en-French government not long ago. The emy or foreign foe. For instance, we inventors reside in Dayton, Ohio, and can examine the situation of great the French representatives said that areas of land. Now, when a general they would buy the machine if the la- goes into battle he must know exactly ventors would operate it successfully. how the land lies. We know, of course, making a flight of a certain number of by maps. But it is impossible for one miles and remaining in the air a certain man to obtain an accurate idea of the strength of an enemy and how the land To make a long story short, the lies as far as his opponent is con-French did not buy the machine and cerned except by getting what is called a bird's eye view. That is the whole hibited by the peace conference held at cleft method, as shown in the fliusnot know and which must not be re- cause of the fact that they cannot be bombs. venled. But Uncle Sam says to all controlled except as to altitude, Mo-

and they are notified that it is desira- question of operation with any one here could be riddled with well-directed bark, of the stock and scion in contact in this country. There are no secrets shells. Of course, war is a game in in at least one side, for it is at this of being easily and quickly taken apart here or snywhere. It is only the quest which one invention is pitted against point that union takes place, and any and reassembled and be transportable tion of working out the details in the another, problem in the best way, and I am sure To protect the government against that we in America can do this better than any one else,"



A number of inventors precent that secret of the worth of the mirship-to The Hague. This compact still holds trations. In this method the scious they have certain secrets about their get the bird's eye view. Balloons for for five years. No balloon or airship are cut wedge-shaped and fitted firmly machines which the other fellows do this purpose are out of the question be is to carry dynamite or other explosive into the cieft made in the stock, which

Rifles have been invented with such branches are from one to two inches such in his specifications that secrets tors are now being hung under them high power that if a balloon is sighted in diameter, two scious being placed in cut no figure. He must have the goods. so that they can be driven about with over a camp or fortification it can be each stock. In this, as in all methods hit at the distance of several miles of grafting, great care must be taken complete scale drawings of their device - It is not necessary to go into the The gas bag or other vital apparatus to get the cambium layer, or inner

The cost of these airships, say for instance, like the one operated by Santos-Dumont, is about \$60,000. Then Some people imagine that the airship each one must have a shed and gas will be used for the purpose of carry- plant where it is to be located, making required to furnish with their proposals ing destructive bombs which could be in all \$100,000 for each machine. Ten a certified check to the amount of 10 dropped from overhead on to an enemy of these for coast defense would cost

"And the teapot?" she inquired. He looked at her with a pathetic ap-"It means £50 to me," he said apolo

SAMPLES OF TOP GRAFTING.

Grafting Methods.

in the nursery either by budding or

root grafting two-year-old seedlings.

Larger seedlings may be taken up and

the roots cut into a great number of

sections five or six inches long. Upon

these the scions of the desired varie-

ties should be grafted by means of the

whip and toughe method of grafting,

as shown in the accompanying illus-

trations. This grafting does not re-

quire any wax, the parts being simply

held together by binding with twine or

raffia. Root grafting of this kind is

usually done during the winter time,

and the grafts stored in moist sand or

soil until the ground is fit for plant-

ing them outside in the spring. They

trees large enough to transplant to per-

Top grafting is usually done by the

is usually cut off squarely where the

manent positions.

Apple trees are usually propagated

fallure to connect the cambium layers failure of the scions. In top grafting, the wounded surfaces should be "Wait a moment," she replied, with covered with grafting wax. A good by weight, melted together. Top grafting should be done early in the spring.

In all this propagation work great care should be taken to select scions from trees bearing the very best type of the varieties intended for propagation. Nurserymen, as a rule, are not careful enough in this respect and take scions from any trees so long as it is of the desired variety .- II. L. H.

About Cow Testing.

Prof. Fraser of the Illinois Experiment Station says that a complete knowledge and mastery of the dairy business cannot be secured without testing each cow. Many farmers and dairymen think this testing of the cows is too much trouble, and do not want to "fuss" around with it, but if they considered the profits to be realized from a herd of really good cows as compared with one of poor cows, or even a mixed herd, they would soon see that it really pays to "fuss" around with the scales and Babcock test. Where one cow will give good returns for her feed and care there may be another in the stall next to her that is not paying her board, but is eating up the profits from the paying cow. But how is the owner to know this if he does not test them? A pair of scales and a tester do not cost much, but they oay big profits on the investment.

Agricultural Extension. One method employed by the State agricultural colleges of reaching the farm boys and girls of the country is through departments of agricultural extension. Such departments have been established at most of the older colleges and they are doing a vast amount of good. The extension department of Ohio is one worthy of the attention of the agricultural world, for through its monthly bulletins thousands of children and teachers in the State have been interested in farm education who would otherwise have never heard of the college and what it is doing.

Vaccination of Hogs.

Secretary Wilson states in his annual report that blood serum from hogawhich have been proved to be immune to hog cholera has been used in vacci-"Because I read in the papers that nating other hogs, which are thus protected from cholera for about three weeks, as shown by experiments. If blood from diseased hogs, however, is injected with the serum the protection is extended to about three and a half Cultivation of Pointoes

Cultivation should commence just as woon as the young plants begin to appear above the ground. The field may be gone over with a light harrow, or, better still, with a weeder. This is a cheap method of cultivation, since a wide space is covered. It is also effective in breaking any crust that may have formed, in destroying small weeds and leveling ridges left in planting. As soon as the rows can be seen the

cultivator should be used. If the ground has become packed the first ultivation may be deep and close to the plants. Subsequent cultivation should be frequent. The conservation of moisture by frequent fillage cannot be too strongly enforced. The old notion that tillage must cease as soon as the blossom appears is wrong. It should be continued as late in the season as the vines will permit. As the ops begin to spread out and cover the space between the rows they partially shade the soll and thus lessen the loss of moisture by evaporation.

The cultivator should be set as narrow as the space between and keep it covered with a loose mulch. Experishould then be planted in nursery rows. ence and experiments favor nearly levand in two or three years should make el cultivation. Excessive filling intensifies the injurious effects of dry weather. The best cultivator is one having a number of small teeth, so that 1816-First A. M. E. church organised. it will leave the soil fine and compara-

Pitch Fork Attachments.

In gathering up freshly cut grass or hay, etc., with a pitchfork a small quantity adheres to the prongs of the

fork each time a sile is lifted. In a short while the fork become: ogged and useless it being necessary to remove each par ticle by hand. In order that this cleaning may be done almost auto matically, a Wis

consin man has de- CLEANS OFF HAY signed the attachment for pitchforks shown here. A transverse clearer bar is arranged below the tines of the fork. guides on each end of the bar partly encircling the end prongs, permitting 1894. Bering sea proclamation issued by the bar to slide freely on the prongs. Pivoted on the handle of the fork is a bar which connects with other bars extending to the cleaning bar and to a sleeve which slides on the handle. By 1898-President McKinley sent a mee moving the sleeve on the handle the cleaning bar slides over the prongs of the fork, removing anything adhering to them.

Have them in proper flesh and keep them from feed at least twenty-four hours before killing. Cut the throat so they will bleed properly, leaving the head on. Scald in water that is not too hot, in order to have the skin nice and smooth when dressed. A large kettle with plenty of water is much better than a boller or small kettle. Draw entrails from a small aperture, crop end of wing bone over base of wing bone in front and back. When they have become perfectly cold by hanging by the feet, cut the head off smoothly close to the ears, nearly, and the skin will remain in place. This is better than cutting the head off with hatchet or ax at killing, and tying skin over end of neck.

Poultry Tips.

Eggs need to be turned in the incubator. Don't neglect it.

Make the nests handy not only to dean out but to gather the eggs from. The wet grass is no place for the oung chicks to run unless they are expected to die of cramps.

Fowls like green food as well as any ther class of stock. They need it in their business, so it is good policy to keep them supplied.

A bushel of grain a year for each Patrick's day had been refused. laying hen is said to be the proper amount to count on in estimating the cost of keeping poultry.

Pig Pen Pointers.

economical than cornmeal to feed to students, failed although much bitter fattening hogs.

The swine breeder is responsible nor only for the conditions he provides but dan says that the present trouble arose for those he permits.

The boy and the pig, generally speak ing, are the important factors on the American stock farm. Desirable breeding qualities in a

herd are fixed by a long line of careful selection and breeding.

When an all-corn ration is fed to growing pigs the muscles of the body do not develop to their normal size.

To secure the best results care should he taken to feed the hogs according to

age, conditions and time of marketing. In selecting breeding stock it is an item to know they are from a family noted for fertility, as this is an inher- had charged the trustees with hurting ited quality.

In the Sheep Fold.

But don't neglect the old sheep. Feed them at the right time and in the right place.

place of wool. Get her out of the flock, tion in intercollegiate athletic sports and Wool is what we are after, not hair. | games cease



1483 Death of Edward IV. of England. 1663-Drury Lane theater, London, first

1682 - La Salle descended the Mississippi and took possession of Louisiana. 1783 End of American Revolutionary war proclaimed by Congress. 1795 - Marriage of George IV, of England

and Caroline of Brunswick. 1798 Mississippi territory established. 1808 Roman Catholic archdiocese of Baltimore established.

1814-Allied British and Spanish army entered the city of Toulouse, France .The English under Wellington defeated the French under Soult at Toulouse.

1815-United States bank rechartered for twenty years, with a capital of \$36, OND, OOO.

1829-"General" William Booth, founder of the Salvation army, born in Nottingham.

1830 Mexico forbade further immigration from the United States.

1848 Most Rev. Randall Thomas Davidson, archbishop of Canterbury, born. 1854 English vessel Furious, with a flag of truce, fired on at Odessa, one of the first hostile acts of the Crimeas

1861-Outbreak of the last great insurrection in Poland.

1865-Gen. Lee surrendered to Gen. Grant at Appomattox Court House. 1866 Civil Rights bill passed over President Johnson's veto

1863 Federal forces attacked Fort Sum-

1873-Gen. Edward R. S. Canby murdered by the Modoc Indians in northern California.

1891-First locomotive passed through the St. Clair tunnel.

President Cleveland.

1897-Peru suspended the coinage of allver.... War declared between Greece and Turkey.

sage on Cuba to Congress Battle of the Atbara. 1900 Gen. MacArthur succeeded Gen.

Otis as commander in the Philip-1903 King Alexander of Servia suspend

ed the constitution of that country . United States Court of Appeals declared the Northern Securities Company merger illegal. 1904 Mrs. Botkin convicted of murder

in San Francisco.

1905 Battleship Minnesota launched at Newport News. 1907-Lord Cromer resigned as British

agent and consul general in Egypt. United States Supreme Court decided the Isle of Pines was not American territory.

SCHOOLS OLLEGES

In two colleges serious riots have oc

curred. At Ann Arbor the Michigan University students subdued the local police and wrecked a theater which had ejected one of their number. More than a score of them later were arrested and thrown into jail. At Georgetown College, Washington, D. C., 150 students turned the fire hose on one of the priests, smash ed the crockery in the dining room and marched in a body from the grounds because their request for a vacation on St.

President Jordan and the trustees of Stanford university have held their ground against the recent student revolt and the undergraduates as a body are again at work. The effort to get an When fed dry, shelled corn is more agreement to withdraw, signed by 250 feeling remains, due to the action of the faculty in suspending several students concerned in the revolt. President Jorfrom the determination of the authorities to get rid of student drunkenness.

Beginning Oct. 1 this year, by an arangement between the government of Prussia and the Carnegie Foundation for the Advancement of Teaching, from twenty-five to fifty American teachers who have graduated at some college and taught at least one year in a college or high school may visit the schools of Prussia with all expenses paid by the Prussian government. Similarly, Prussian teachers will visit American schools.

The trustees of the University of Wyoming have removed President F. M. Tisdel on charges of maladministration, insubordination and untruthfulness. Tisdel the university by political machinations, He is a nephew of United States Senator Clark.

The board of managers of Swarthmore college has declined to accept land and coal property bequeathed to the institu-There is that sheep with hair is adelphia, on condition that all participation by the late Anna T. Jeanes of Phil-

The Burglar and the Belle

when the door opened and a remark- her lip. thly beautiful girl hold, facing him

With one small satin shoe thrust del icately forward and one hand still resting on the knob of the door, which she held open, her lips parted to an inarticulate gasp of surprise, and her great blue eyes wide open in sheer amaze. she completely justified at that instant her claim to be considered one of the prettlest debutantes of the last London

wason. The Burglar at the very first glance conceded it. The slight shade of annoyance that crossed his features passed instantly, as he turned toward her with a little bow.

"Who are you?" demanded the girl her eyes still riveted on his face, as though in a kind of fascination, which, nevertheless, seemed singularly free from any element of terror. "Who are you?" she repeated, in a rather more

peremptory voice. "Oh, don't you know?" he replied, with an apologetic gesture. "I'm a burglar."

She regarded him for a moment with the dawn of an appreciative smile hovering round the corners of her beautiful little mouth.

"Mr. Tolroy," she said sweetly, "I think you would look ever so much nicer if you took off that stupid black mask.

The Burglar gave a little resigned gesture; then carefully removed the bit of black cardboard from his forehead. "To think that you should have rec ognized me!" he murmured, as he

placed it on the table beside him. "Recognized you!" She ratered a low, musical laugh. "I recognized you the moment I shut the door. Do you paused an instant, "to lots of peoplethink I should have come into the room and talked like this to a burgiar I

"It certainly would not have been strictly proper,' he admitted; "but I imagined my disguise to be quite per-

He looked at her reproachfully.

"Surely you don't think I am such an intolerable idiot as to break into a person's house at night and run the fearful risk of being shot by Sir Thomas just for fun, do you? I was dining to-night with Charlie Craster and Lord Penhurst, and they bet me a pony that I wouldn't burgle Sir Thomas' house and fetch away a sliver teapot, or something of the kind-to prove I had really got in, you know; and I took the bet, and they are waiting round at Craster's chambers for me now."

"But"-she knitted her brows in perplexity-"what do you want a pony for. Mr. Tolroy? You've got one horse already, haven't you?"

"A pony," he explained, glancing at

********************* her severely, "is not an animal-I "I renounce the profession from this mean, not always an animal," he cor- moment," he declared firmly. rected himself. "In this case it is a sum of £50, which I should regret extremely having to hand over to Pen- peal. hurst and Craster."

'I thick I should, too," she remarked getically. pensively. "Both Mr. Craster and Lord The Burglar was at the sideboard whilst you -- " She paused and bit silver teapot, which she held up.

> "Oh," said the Burglar, "don't mind finishing the sentence, please. I'm not "It's just the very thing. Let's put it rich. I'm only a younger son, and-to into the bag at once." be quite candid with you-I have been eriously thinking of taking up some rofession lately. Burglary struck me-

is a not unprofitable one. "You are not titted to be a burglar, he said decisively. "You must choose another profession, in which you are

ess likely to-be shot by Sir Thomas! The Burglar sighed heavily. "What does It matter, after all, if I

im shot?" he muttered. "It matters a good deal," she exsimed with energy.

"To whom?" he asked in defected

"To whom? Well, to-to-" she



to your friends, for instance," "Oh, they wouldn't mind much," he assured her cheerily. "They'd get over thrust the black mask into his pocket, It in a day or two. I really don't think and looked at her solemnly. anybody would mind much. There are such heaps of other fellows to take

one's place, you know." "Don't be silly! They would mind Some would," she replied, becoming a

ittle confused. stood looking down at her with a sud-

den expression of earnestness.

"Would you?" he asked bluntly. Her eyes dropped, and she let her heek rest on her hand as she gazed at the dying embers in the grate.

"Who dares grently," she murmered, 'achieves much." "But you." He made a mute gesture of protest. "You are the belle of the

She looked up at him under her lashes without raising her head. "A burgiar!" she said softly,

She rose, and, crossing to the side Penhurst are quite rich enough as it is, board, opened it, and drew out a small "Will this one do?" she asked.

> tantalizing deliberation. "Before I give formula for this is: Four parts of rest you you must promise me two things. in, two of beeswax and one of tallow, The first is, that you will return the teapot intact to-morrow; the second is

that you will never, never try before growth commences. o be a burglar again-not even to win a horse?" "A pony," he corrected mildly. "Yes will promise both things faithfully, if

-observe, it's my turn now!--if----" "Go on!" she commanded sternly. "If you will promise to marry me,

be said, as, with a swift movement, he suddenly clasps her in his arms. "Oh!" she cried, "you have made me Iron the teanot-and the noise will

very likely wake Sir Thomas!" "Great heavens!" he ejaculated. tooping quickly and picking up the fallen utensil. "And he'll probably, in the excitement of the moment, shoot us

with!" They listened a moment in tense, and ous attitudes, but not a sound came to break the peaceful stillness of the

"Safe!" she exclaimed at length, with deep breath. "Now, please, take the eapot and go-go at once, before you drop it again and really do wake someone. I will let you out quietly by the

"You're an angel," he murmured, at tempting once more to fold her in his embrace, but she eluded him with a quick, supple movement.

'No-not again-not once," she warn-

ed him, "till you bring back the teapot!" The Burglar placed the teapot care fully in his bag, put on his overcoat,

"Then I will bring it back to-morrow morning-early." he said, with quiet decision. "It is agreed."

. "l'enhurst," he said, an hour later, to a very sleepy young nobleman. "I The Burglar took a step forward and don't want to disturb your slumbers, nor Craster's, but you can bindly write me out a check for £50. Here's Sir

Thomas teapot."-The Sketca,

For Engagement Rings. "Why did you accept George so suddenly after you had refused him only

last week?" diamonds were getting cheaper."-Battimore American. London season — whereas I am

feathered his nest."

When a man fails in business, some people are sure to say, "I'll bet he