Pasture alone has an immense influence over the butter, Any manuring that serves to promote a rank, succulent growth, which, while it may increase the quantity of milk, contains a large per cent. of water, is not beneficial for the making of butter, reducing at the same time the strength and flesh of the cows in the herd.

Since it has been asserted that the Jersey cow is the one that yields the most in quantity, quality and color of times of the year, especially in sumbutter, the food that is best relished by mer.

6 Green and hav

5. Give plenty of fresh water daiare the staples. These grow with little labor in the cultivation. Sowed corn, 6. Feed them systematically, two or corn-fodder, either dry or green, helps fill in. The first may be given with great benefit when the pastures have become reduced in yield. Winter that they will eat up clean, or they will get tired of that kind of feed. dairying is more profitable than sumdairying is more profitable than sum-mer, but attended with more care and and cooked foed; a mixture of cooked labor. A crop of roots, either beets or meal and vegetables is an excellen carrots, should be raised for winter thing for their morning meal.

Some see not good unless fed 8. Give soft feed in the morning use. Turnips are not good unless fed at a proper time; that is, just after milking. The odor then passes of with-the scratching place during the day. tity is increased, but not the quality. Cleanliness throughout in every department is important. The milk gives the flavor, color and texture to the butter. The milk pail should be perfectly clean. No slovenly person should be allowed to do the milking; neither should the care and cleansing of the implements be entrusted to such a person. There must be bright, smart, clean hands in every department. The fine dust scatters into the pail, and sire is required. Superior mules with the milk no strainer will separate it. The flavoring of milk and butter is very fine and delicate, and is influenced by surroundings, consequently these must be looked to. A flithy stable is than horse coits. They can be weaned must be looked to. A fifthy stable is much earlier, and with lets trouble. It worse than a barnyard, and in these is difficult to work a mare that has a two places most of the milk is drawn herse colt, as it will want to suckeyery from the cows. There are many few hours, but a mule colt will absta methods of setting the milk, and every from sucking five or six hours without one has a way of his own, whether it be correct or not, That mode which it will make a good meal on fodder produces the greatest amount of but- that will be rejected by any domestic ter from the given quantity of milk, animal except a goat. It has surpris-and with the least expense of time, is ing endurance and vitality, if well and with the least expense of time, is the cheapest and easiest. The temper-with no shelter except during severe sture of the atmosphere is one important item, and this may be controlled in 30 per cent less than that of raising a measure.

strength of Insecta

Nature is full of wonders to those who delight in studying her works. activity of insects, that to enable them but if a man were coolly to take a standing leap of 380 odd yards, which would be an equal proof of muscular power, admirers of athletic sports might be astonished. Again, for a hill-Tor Forests — If in cutting off sponges with the man to run ten miles within the hour forests, a reservation were made of would be an unusual display of power; lots growing on hill tops, the people but what are we to say to the little fly in the vicinity would gain by it. Woods observed by an eminent naturalist, keep the surface of the ground cool that is so minute as almost to be invisi-ble, yet which ran nearly six inches in a second, and in that space was calcu-however, performs a special use in prelated to have made 1(80 steps? This, seconding to calculation, is as if a man clined to pass the summit of a hill. whose steps measured two feet should run at the rate of twenty miles a minoften is, the heated sell sending a curute. The great stag-beetle, which tears off the bark from the roots and branches the cloud that ventures over it. A litof the trees, has been known to gnaw a hole an inch in diameter through the with trees, will secure the neighborside of an iron canister in which it was | hood many a dose of summer rate that confined, and on which the marks of it otherwise will not get. Think of its jaws were distinctly visible. The this and be wise. common beetle can, without injury. support and even raise very great weights, and make its way beneath a In order to put the strength of the inhave been made which prove that it is able to sustain and escape from beenath a load of from twenty to thirty ounces, an immense burden when it is considered that the insect itself does not weigh as many grains. In fact, once more taking man as a standard of comparison, it is as though a person of ordinary size should raise and get from under a weight of between forty and

flify tone. A Feathered Bandik The butcher bird is a feathered banda, usually the character of a bird of dit, usually the character of a bird of prey is well defined; there is no mistaking him. His claws, his beak, his head, his wings, in fact his whole build point to the fact that he subsists upon live creatures; he is armed to eatch them and to slay them. Every bird them and to slay them. Every bird the subsists upon the original negative. The first step which black lead is applied to the surface, and the excess is polished off by means of a soft brush. A sheet of them and to slay them. Every bird mixed rubber, previously softened by knows a hawk and knows him from heat, is next applied to the prepared the start, and is on the lookout for him. surface of the mould, and euring is.

The hawk takes life, but he does it to effected by means of a small hot-press maintain his own, and it is a public and universally known fact. Nature sent him abroad in that character and which rests a slab of type-metal an inch thick limit to the land Las advised all creatures of it. Not so inch thick. Inside the kettle is placed with the shrike; here she has concealed the character of a murderer under
a form as innocent as that of the robin.

For right place of the press stands a small press, like a copying press in
ministure. By the side of the press
stands a small iron cup, containing
glycerine, and in this fluid is immersed Feet, wings, tail, color, head and general form and size are all those of a song-bird—very much indeed, like that master songster, the mocking bird—yet this bird is a regular Biuebeard among its kind. Its only characterismeter shall indicate a tolerably conmeter shall indicate a tolerably content temperature of, say, 140 degr. or the feature is its beak, the upper man-dible having two sharp processes and a sharp, hooked point. It cannot fly sharp, hooked point. It cannot fly cured by being heated under these ciraway to any distance with the bird it kills nor hold it in its claws to feed any tendency toward adhesion to the upon it. It usually impales its victim upon a thorn or thrusts it in the fork of a limb. For the most part, however, a limb. For the most part, however, its food seems to consist of insects—spiders, grasshoppers, beetles, etc. It is the assassin of the small birds, whom it often destroys in pure wantonness, or merely to sup on their brains, as the Gaucho slaughters a wild cow or bull for its tongue. It is a wolf in sheep's clothing. Apparently its victims are unacquainted with its true charreter and allow it to approach them, when the fatal blow is given.

Grace: "I am going to see Clara to-day. Have you any message?" Charlotte: "I wonder how you can mould is made from the types, this settently passed for indorsement and other purposes. To make these steeotypes, a reverse or mould is made from the types, this being taken in placer of Paris, or better still, in metal. When plaster is employed it is well to harden it, by saturating it with an alcohofic solution of shellac, and again drying. The soft much the types is then lorged into the mould, after which the curing may be effected in the hot press.

Grace: "I am going to see Clara to-day. Have you any message?" Charlotte: "I wonder how you can mould is made from the types, this low."

Bakked implaced in the alt.

Bakked in place of Paris, or better "Can't my man. I wasn't brought up to take, in place of passed in the sweeper, please, sir."

"Can't my man. I wasn't brought up to the business. Besides, I have no broom."

The butcher compliance of Charlotte: "I wonder how you can mould is made from the types, this live."

"Can't my man. I wasn't brought up to take; the meal, cover, and let cool before adding the eggs; bake three-quarters of an hour.

Boulza starch is much improved by the addition of a little spermaceti, or salt, or both, or a little gum arable discustomers.

AGRICHLTURK.

POULTRY RULES .- 1. Construct your house good and warm, so as to avoid amp floors, and afford a flood of sun-

2. Provide a dusting and scratching place where you can bury wheat and corn and thus induce the fowls to take needful excercise.

healthy chickens, none to be over three or four years old, giving one cock to

and the whole grain at night, except little wheat or cracked corn place house clean and well ventilated.
10. Do not crowd too many in on

house, if you do, look out for dis-Use carbolle powder in dusting bins occasionally to destroy lice.
 Wash your roosts and bottom of

laying nests with whitewash once week in summer, and once a month MONEY IN MULES,-Raising mule

for sale is one of the most profitable, it indeed, it is not the most profitable washed with a sponge and clean water before milking, in order to avoid that peculiar "barnyardy" flavor which always hangs about some people's but-ter. This is no fault of the cow, but of the keeper, in allowing her to lie old, debilitated mare is suitable to raise down in flithy places thoroughly immules from. But in this they are mispregnated with it. In milking, the taken. A good dam as well as a good fine dust scatters into the pail, and large size are in constant demand at forms a sediment that settles into the high prices. They are wanted not only bottom of the vessels, in which the on isrms but in large towns where milk is set. This is too frequently the result of laz ness. After it is once mixed better than horses. At present there is a foreign demand for mules that is likely to increase. Mules stand a sea voyage much better than horses.

Mule coits are much easier to raise

horse, and it will ordinarily bring more money. Some of the most prosperous sections of the country are those in which raising mules as a leading business among larmers.

Few of us think, while we watch the ple in drying fruit is to subject to a current of het air so as to dry the cut suractivity of insects, that to enable them face at once, which prevents discolorato perform such feats an amount of tion and hermetically seals the cells strength has been given them which which contain acid and starch, and could not safely have been entrusted to any of the larger animals, and not thing but their diminutive size prevents them becoming our masters. The common flea, as every one knows. will, without much effort, jump 200 times its own length, while grasshoppers and locusts are able to make leaps quite as wonderful. In the case of the insect they scarcely excite our notice; but if a man were coolly to take a color, making it set roughet the strongest to take the taste out of his mouth, and the way he spouted suds and soap bubbles for the next haif-hour baffled the fruit does not cook, as in ordinary drysing in hot air chambers, but the moisture is evaporated and removed rapiding in formed of the cause of the lad's suffering. They are at loggerheads now about what to call the case.

HILL-Top FORESTS -If in cutting off

POTATO Water, or water in which potatoes have been boiled, is now re-commended in various quarters as not only an effective but an immediate very considerable amount of pressure. remedy ter lice on cows and other cattie, also for ticks. The affected parts sect Atlas to the test, experiments are to be bathed with the potato water:

For a safe, steady, nutritious healthy, universally available and every-where procurable feed for weaned lambs, there is nothing which is for a moment comparable to wheat bran.

Rubber Moulds and Stamps.—in an admirable lecture by Mr. Thomas Bolas, Fellow of the Chemical Society, before the London Society of Arts, the

Tax two young heirs, who had been

The young heirs, when they come to opening in the cet think what a hard time they had worrying pennies out of their paternal relatives, thought it might be made that

way, too.

ned with scarlet."
"I must order a new pair of shoot

"I must order a new pair of shoes to-morrow, and the material for that wrapper, and visit Madame X's to try on that dress."
"There's Ed. Cochunk we saw in Newport last summer."
"How that girl does lace!"
"Amen! My! isn't it nice to ge

"Thropolitia, darling; come here, child, to mamma," called Mrs. All-heart to her little daughter. "Oh! what a sweet name!" exclaimed Miss "Where did you get that Allheart?" "In a novel, Gigglegush. "Where di dear-'The Fourteenth Wife," by Mrs. C. A. I. N. Northworth." This is but a specimen of common-enough conver-sation. It occurs to us that the women shouldn't be allowed to monop lize this thing. If they are to be allowed to rob the novels for their daughters' names, why should not the men seize upon the "sweet" names of the drama for the use and behoof of

ONE day the poet Whittler was exchanging reminiscences with Miss Abigail Douge (Gail Hamilton), when ne told the following story of an old friend, who was very much annoyed one afternoon by some boys following him and teering and swearing at him, and especially when his hat blew off, calling out to him: "Go it, Broad-brim! Limber up and you'll catch it ming down the street, and said Boy, is thee profane?" "You bet." Boy, is thee profane?" 'Then (handing him a quarter) cuss those boys two shilling worth."

A LOVER, who was slighted by the females, very mo estly askel a young lady, "if she would let him spend the evening with her?" "No," she angerly replied, "that's what I wou't." "Why," replied he, "you needn't be so fussy; I didn't mean this evening, but some stormy one, when I can't go

wood, throws up the sponge with the remark that "it don't pay to run a paper in a town where the business men read almanaes and pick their teeth with the tail of a hearing."

A WOMAN in St. Louis has sued he busband for divorce on the ground that he called her "an old cow." I the woman was intemperate, and had just taken a couple of "norns," the usband was justified in addressing her by a bovine application.

Ir makes a mother's heart revert to ed for three years.

"DARLING, Kiss Me Sweet Good Night," is the latest song. One young man sang it in the presence of his gir the other evening, and just as she was about to act in accordance with the orange sheliac in one quart of ninety-words of the song her dear papa put five per cent. alcohol; to this add one in appearance and filled the youth' coat tails full of boots.

THE Locomotive publishes engravings in each issue showing how bollers ook just after they have exploded This doesn't seem to hit the case at all. What is needed is a picture showing how a boiler looks just before it is going to explode. We could then learn wh to get out of the way.

IRISHWOMAN (to Postmaster)-"Are

APROPOS of names. First swell: " never did like 'May,' not nearly so pretty as 'Mary;' wonder they don't change the name of the month to 'Mary.'" Second swell: Clevaw ideaw as it soon hardens, when it cannot be

A Norristown man who is so near sighted that he cannot recognize his friends across the street, always dodges, round a corner when one of his cree tors is a square off and coming towards

not you think that too much smoke is injurious to the mind? He-I cannot say I do. In my own case I have

A GENTLEMAN was wondering why

there are so many bad reputations, when a friend said; "It is probably because every man has to make his GRACE; "I am going to see Clara

Tak two young heirs, who had been taking their first lessons in grammar dispated long and earnestly over a question, and at last agreed to decide it by arbitration, seelecting the head of the family as arbiter, with full power to send for persons and payen. The old man was greasing his book fore the kitchen stove.

"Father," said the elder heir, "is it proper to say 'we is rich,' or "we am rich'?"

The old man worked carefully down into the hollow of his boot under the instep, remaining a long time in thoughtful meditation, and then slowly re lied:

"Well I should say it would come nigher to the truth to say we hain't rich"

The young heirs, when they come to think what a hard time they had worrying pennies out of their paternal review of the content of your to fich and the say we hain't smoother and make a small cut or opening in the center; bake one hour, should it brown too tast lay a thick pager. CRICKEN PIE.-Have your chicke

A NEW hought in church—"The sermon is a bore."

"How much longer will he preach?"

"I'm hungry for dinner."

"I'm hungry for dinner."

"I'wender if Emma is engaged."

"Well, if old Mrs. Foo Foo is n't wearing a turban too."

"I'wonder how much that bonnet bost."

"It sounds as if he was going to close up the sermon."

"I do wish the Bernhardt season had commenced."

"I've a great mind to have it trimned with scarlet."

"I'must order a new pair of shoes comportory and the material for that How to Cook WILD FOWL .- As this

"Is it possible that Mr. Godfrey is up and at work, and cured by so simple remedy?" "I assure you it is true that he is en tirely cured, and with nothing bu. Hop Bitters; and only ten days ago his doctors gave him up and said he must die.!"

"Weil-a-day! That is remarkable I will go this day and get some for my poor George—I know nops are good.' —Salem Post.

LOAF CARE. -Six pounds of flour three pounds of shortening-one-half butter, one-half lard-four pounds of sugar, six or eight eggs, three pounds of fruit, one glass of spirits, spice to suit your taste. Rub the shortening with the flour. Have the milk sufficiently warm for the yeast not to scald it. One pint of yeast batter. When men seize upon the "sweet" names of the drama for the use and behoof of their sons? What prettier, for example, than Bagstock Jones or Filp Maglidder Smith?

SURSTITUTE FOR JELLY .- If you happen to have no jelly to eat with your meats, take a pound of dried apples, pick and wash them carefully, and put them in a little boiler with water suf-ficient to cover them well. Then put the boiler top on, and let the apples cook till soft, stirring often to keep them from burning to the bottom. When soft add a teacupful of sugar, and mash and stir while cooking, till it has stewed down to the consistency of mar-malade. Serve out in little dishes, and when cold grate loaf sugar over it.

POOR MAN'S PLUM PUDDING .- Take three cups of flour, one cup chopped suet, one cup stoned raisins, one-third cup milk, one teaspoon of saleratus dis-solved in the milk, half teaspoon of sait, one teaspoon each of allspice, clu-namon and cloves. Boil three hours. A Michigan boy ate a bar of soap on wager and then drank a lot of soda o take the taste out of his mouth, and he way he spoured suck and sould a dish fit for a King thousand the mark and sould be designed a dish fit for a King thousand the mark and sould be designed as a dish fit for a King thousand be designed

ITALIAN CHARLOTTE DE RUSSE.

Eighteen sponge cakes; vastilla flavor;
four tablespoonfuls sherry wine; threequarters of a pint of cream; one table spoonful powdered sugar; half an ounce isinglass or gelatine; brush edges of the cake with white of an egg. ine bottom of your mould, and stand up on end at sides; connect the edger with white of an egg, and place in oven about five minutes, just to dry the egg; whisk cream to a stiff froth with sugar and flavoring and melted isinglass; fill the mould with it, and cover with a slice of sponge cake cut in shape of mould, and place on ice.

WHITE HARD SOAP .- Good hard soap may be made as follows: Ten pounds of soap-grease—refined tallow is best for white—is boiled in lye made of five pounds of soda, half as much fresh time, boiled for half an hour in seven the rounger days when she comes into the parior next morning after her daughter's beau has been round, and finds only one chair in front of the fireplace and the others sitting along the wall as if they hadn't been touch the soap floats on the top, and may be set for three years. cut into bars to be removed.

> FURNITURE POLISH. - For a polish clean up and brighten old furniture, pianos, etc., dissolve four ounces of quart of linseed oil and one pint of turpentine; when mixed add four ounces of sulphuric ether and four ounces of squa ammonia; mix tho-roughly before using. Apply with a cloth or sponge, and rub the surface to which it is applied until the polish ap-

ORANGE CREAM .- Make a custard with the yolks of eight eggs, four ounces of pounded sugar, a quart of milk and the thin rind of two oranges. Stir it in a bain marie till it thickens. Dis-IRISHWOMAN (to Postmaster)— Are the Indian letters in yet?" Postmaster — "No, ma'am, the Indian mail has not arrived yet." Irishwoman—"Sure it isn't Indian male (meal) I want, but letters!" letters!"

bah Jove! make awystaws good to used. Powder a small quantity of the June, you know!" lime, and mix to a paste with the egg.

Apply quickly to the edges, and place
firmly together. It will soon become
set and strong, seldom breaking in the

Vegerine -This preparation is selentifically and chemically combined, and so strongly concentrated from roots, herbs and barks, that its good effects are realized immediately after commencing to take it.

lesson the mental vigor. She—Oh!

HE was watching his neighbor's boy climb a tree and he had a look of paintul anxiety on his countenance, "Are you afraid the lad will fall and break his neck?" was asked him. "No," he replied, "I'm deucedly afraid he won't."

KEROSENE Will soften boots or fhoes which have been hardened by water, and render them as pliable as when new. It will also make tin kettles as bright as when new. Saturate a woolen rag and rub with it. Stalus may also be removed from clean varnished furniture with kerosene.

BEESWAX and salt will make flatirons as clean and smooth as glass. Tie a lump of wax in a rag and keep it for that purpose; when the irons are hot rub them with the wax-rag, then cour with a clean paper or cloth sprinkled with sait.

As the firemen belonging to Engine Company No. 29 were returning from three in Warren street last evening, they saw smoke issuing from the grating over the sidewalk in front of 201 Fulton street, occupied by the Wells fea Company. An alarm was sounded and the engine had steam up again in a few minutes. Five more engines came. At first it looked as though it would be a very easy matter to extinguish the fire, but the smoke was so dense that entering the place to direct the streams was out of the question. Poles were therefore attached to the nozzles, which were then pushed in hrough the basement windows. It wook two hours of steady, hard work to h roughly extinguish the fire. The h roughly extinguish the fire. The
image was estimated at from \$20,000 to
\$25,000, and the amount of tea made by
the atreams of water playing for so
iong on the blazing tea-chesis was estimated at a million gallons.

—Taken from N. Y. Sun, Dec. \$, 1380.

Taken from N. Y. Sun, Dec. 3, 1880.

The stock was a very large one, and rich in variety. It included not only all the various grades of Tea from China and Japan which are well known, such as Japan, Uncolored Japan, Basket Fired Japan, Natural Leaf Japan, Japan Tea Du-t, Gunpowder, Imperial Hyson, Young Hyson and Twanky, but these old-fashioned "Old Country" Teas, such as Congou, Souchong, Scented Orange Pekoe, Scented Caper, and the various grades from India, including the far-famed Assam.

In all cases there were from five to in all cases there were from five to

ten grades of each kind to suit not only the East and West, but all the various tastes of the cosmopolitan population of our "whole country" and the Canadas included. The Wells Tea Company are an offshoot of the original American Tea Company, of which Robert Wells is President. They were established about

six years ago, and have large resourlelay in the execution of any orders.

In a few days the old warehouse will be in its accustomed shape; no inconbe in its accustomed shape; no incon-venience will be occasioned in the meantime to their large list of customers, their adjoining building affording

Progress of Cotton Seed Oil Manufac

ture.—The industries of the South have, since the close of our civil war, been extending in different directions, while some peculiar branches have attained a degree of importance never dreamed of in the days of slavery. One of these is the manufacture of the oil of cotton seed and the art of refining the same, by which it is made as sweet as olive oil, and not only used as such in the United States, but it is now largely exis there used for adulterating the native article, and then it is exported again as genuine olive oil. This has already become a serious matter, as of the six million gallons of cotton seed oil which are exported from the United States during the last year, the greater portion went to Italy. The Italian Government, therefore, in order to check this adulteration, has imposed a heavy duty upon the importation of co'ton seed oil from the United States. The exportation, which in 1877 and 1878 was about one a half million gallons per year, reached in 1879 nearly six millions, and this will be surpassed in 1890. Our home consumption of the article is over two million gallons per year. Mississeppi and Louisiana have each 9 cotton oil mills; Tennessee, 8; Texas, 6; Arkansas, 4; and Missouri, Alabama, and Georgia, 2 each; to-rether, 42. At present 410,000 tons of the seed are now pressed, yielding 35 gallons of oil and 750 pounds of oil cake to the ton of seed. This oil cake has admirable fattening qualities, and

The Greatest Blessing.

is largely used for cattle.

that cures every time, and prevente disease by keeping the blood pure, stomach regular, kidneys and liver active, is the greatest blessing ever con-ferred upon man. Hop Bitters is that remedy, and its proprietors are being blessed by thousands who have been saved and cured by it. Will you try it? See another column. - Eagls.

Illuminating composition.-Cleanse oys-ter shells by well washing, expose them to a red heat for half an hour, separate he cleanest parts and put Into a crusible in alternate layers with sulphur: now expose the vessel to a red heat for an hour at least. When cold, break the mass and separate the whitest parts for use. If inclosed in a bottle the figures of a watch may be distinguished f the mass, place the bottle each day n the sun, or in strong daylight; or burn a strip of magnesium wire close to the bottle. The sulphide of lime will thus absorb light, which will again be available at night time.

Ladies making collections of business cards, send to Cragin & Co., Phila., Pa., for a set of seven cards in six colors and gold, illustrating Shakespeare's "Seven Ages of Man." Sent gratis to users of Dobbins' Electric Soap.

The people of Sheffield, England, have the privilege of using an equatorially mounted telescope in the Public Mu-seum under the direction of the curator. Many an ambitious student in this city would be most thankful to the man verification of known and the discovery of new facts. Our intelligent citizens also would find in it a means of elevating and stimulating mental pleasure. We should not long be without even a better instrument if some of our rich and thoughtful men would give the natter their attention

Herr Preyer, an investigator, has rowen that the drowsiness of fatigue scaused by the introduction into the ood of lactic actd, which is produced by the disintegration of bodily tissues of nerve and muscle. Many of the esations we daily experience seem to be the direct result of similar chemical hange.

Like animals, plants differ greatly in heir habits and the feed upon which they subsist. The broad-leaved clovers, turnips and mangels abstract from the air a large portion of their growth, while the narrow-leaved grains and grasses partike more largely of min-eral food, which they draw from the soil. In this fact lies the great advantage to farmers of rotation of crops

Tuz only hope of bald heads-Carboline, a deodorized extract of petro-leum. Every of jection removed by the recent improvement. It is now faultess. The only real natural hair retorer ever pre

The latest and most notab'e achievement in organic chemistry has been accomplished by Messrs. Grimaux and Adam. They have succeeded in converting glycerine into citric acid by a "building up" process which will attract the attention of workers in syn-thetical chemistry over the world, but which will be best studied by peccalises in our best edectical literature of

Save your tea leaves not only to allay the dust in rooms when sweeping, but steep them in boiling water and use this to wash your varnished paint. TELLS HOW TO It will remove spots, etc., and brighten it wonderfully. You can tell dogwood by its bark.

P. O VICKERT. AM Tue cold, driving, easterly rainstorms of this season rarely fail to afflict nearly everybody with Colds. Use Dr. Bull's Cough Syrup, the surest and safest Cough Remedy made. Price 25 cents. GREAT WESTERN

THE ROAD TO HEALTH .- Cleanse stomach, bowels and blood from all acrid and corrupt accumulations, and you remove the cause of most diseases and thus preserve good health and also save large doctor's bills. The most effectual and reliable remedy for this purpose is Simmons' Liver Regulator Read what a physican of twenty years

practice says. "Your medicine is steadily gaining popularity, and is one of the indispen-sables in every family that has given it a trial. No other remedy within my knowledge can fill its place. I have been practicing medicine for twenty years and have never been able to put up a vegetable compound that would, like the Liver Regulator, promptly and effectly move the liver to action and at effectly move the liver to action and a the same time aid (instead of weaker the same time and (instead of weathing) the digestive and assimilative powers of the system.

"L. M. Hinton, M. D.,
Washington, Ark."

Who is going to invent the nezzle of e future? There is no nezzle that the future? There is no nozzle that we have ever seen that seems to us to control the stream it delivers as it should do. Instead of projecting a solid stream for a long distance, the water breaks soon after leaving the nozzle, and soon sprays and breaks up altogether. We often hear of steamers throwing 250 and 300 feet, but we rethrowing 250 and 300 feet, but we re-cently heard a veteran chief say that he had yet to see the apparatus of any kind that would throw a solid stream 100 feet. The difficulty may be all with 100 feet. The difficulty may be all with the water, which is naturally ibelined to separate, but we are of the opinion that part of the trouble lies in the construction of the nozzle. An experiment made at Boston by cutting a core into a play-pipe, and thus dividing the atream into four parts, depriving it of its rotary motion, showed a gain of thirty feet in distance playing. But even this does not seem sufficient. Our steamers give us power enough for steamers give us power enough for throwing, and the hose in use gives every facility for earrying a large colume of water; there should be some means devised for delivering that vol-ume in a solid stream at long distances. Great difficulty has been found in making nozzies operate uniformly at all times. A manufacturer of steamers once found a nozzie that gave him great satisfaction; with it his steamers cou throw greater distances than with any he had ever tried before. He ordered half a dozen just like it. The half a dozen were made precisely like the first, but never equalled it in deliveryet regarding this question of deliver-ing water on fires, and the exact rela-ions existing between present ing water. There is much to be learned tions existing between pressure, hose, play-pipes, nozzles and the friction of water more clearly understood.

Herr Wohler's aluminum galvani battery, which is capable of raising a decomposing water, is thus described.

A roll of sheet aluminum is placed in a round glass vessel containing very dilute muriatic acid or dilute soda lye. Within this large roll of aluminum is placed a porous cell containing con-centrated nitric acid and a smaller roll of aluminum. Each roll has a lug or prejection which is inserted into a circular cover of ebonite, and thus kept

A Benefactor of Mankind.

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