perfect imitations of ebony under the following treatment; Boll in a glassed vessel, with water, tox. gail-mis, i ex. of igwood chips, i ex. vitriel, and i ex. erystallized verdigris; filter while warm, and brush the wood with the hot solution a number of times. The wood, thus stained black, is then to be coated two or three times (being allowed to dry completely after each coating) with a solution of 1 ex. of pure iron dlings in a quart of good wine vinegar. This is to be prepared het, and allowed to cool before use. erfect imitations of chony under the following

EFFECT OF RUDDER TURES ON ILLUMINATING EFFECT OF INDIANT TURSON INDIANTALIAN COLORS OF INDIANTALIAN CALLS OF RESULTS OF RECENT TURSON TO THE STATE OF THE STATE O mixture of air by dimeson, our churchy to the partial absorption of some, perhaps all, of the illuminating lugredients. Furthermore, since these absorbed ingredients are given up in a vacuum, and without doubt also gradually to the air, the effect of such tubes is independent of the time they may have been in use.

THE conjecture that the meteor showers which occurred so generally all over the earth on the 27th of November last, were due to the on the 27th of November last, were due to the passage of our planet through a portion of Biela's comet, has been regarded with favor by some astronomers and denounced by others. The discovery of a comet in the Southern sky by Mr. Pogson, the Madrus astronomer, on the 2d of December, was regarded as confirmatory of the supposition, as its place was that which fields's comet would naturally occupy if the earth had just passed through it. Now, however, some persons deny that the comet which Mr. Pogson saw is really the lost comet of Biela, although its probable identity is maintained by Prof. Klinkerfues and by Prof. Oppolser of Vienna.

ARTIFICIAL CLOUDS.—A few weeks ago we (English Mechanie) referred to an experiment about to be made at Suresnes, on the possibility of preserving vines from the action of frest by artificial clouds. These experiments have taken nrificial clouds. These experiments have taken place, before a large number of interested observers. In a vineyard of 20 hectares there were placed \$50 iron vessels containing a heavy oil. All these firepots were lighted at once, and a thick black cloud was interposed between the vines and the sky. When the weather is calm and the sky clear (and it is its such circumstances that the frosts which so tojure vines in spring mostly occur), this cloud continues all the time necessary to exercise its protective influence. The cost of the operation (including lots, oil, and labor) was estimated at about 5 france per heclare, or 2.5 statute acres; and gli the efficient protective influence of the protective influence per heclare, or 2.5 statute acres; and gli the efficient protection in the protection of the period of themselves as a strick and moust war osumated at about 5 frauca per becare, or 2.5 galuto acres; and git the viticulturists expressed themselves as struck with the advantages of this means of preservation.

FAMILY MATTERS.

SILVER CARE.-Two caps of four, one and one-half cups of sugar, one-half cup of swoot milk, one-half cup of butter, whites of four eggs, one scant tenspoonful of cream of tartar, one-half scant tenspoonful of soda, e id flavor with vanilia.

Sutricia: Sold indeed all wood-work, may be rendered less liable to take the from falling cinders, de., by conting it with a wash composed of lime salt, and fine sand or wood sales. This compound also preserves the well, and should be applied in the same manner as onlinery whitewash. ordinary whitewash.

ordinary whitewash,

Calvest Feet.—Gormans have a very good
way of cooking calvest feet, far superior to the
simple parely and butter treatment. The feet
are first builed with a few horbs, sait, and vinegar, till they are tender; the bones are then
taken out, the feet split, ogged and broadcrumbed, and either fried or baked. Fried and
served with sauce piguants they are excellent.

served with source piquante they are executed.

CLEANING TIN-WAHK.—Acids should never to employed to clean tin-ware, because they attack the metal and remove it from the iron of which it forms a thiu coat. Rub the articles first with rotten-stone and sweet oil, then finish with whitening and a piece of soft leather. Nothing else will give so good a polish.

To remove rust spots from entiry, rub them with a common lead pencil and polish with paper or a cloth.

should be illied with whipped cream.

THE BEST WAY TO BOIL CLOTHES.—Aunt Rhody Bacon has been making us a visit. She is an ancient maiden, and is as full of information as an erg is of most. It happened that she passed through the kitchen as my washerwoman was preparing to boil her clothes in a kettle filled with boiling water, and she could not refrain from remonstrating with her upon the

subject, thus:

"If you bile the clothesin biling water, they'll telligent, there is always the look of beauty, be yaller, as sure as you're a gal," eried aunt with a right heart.

Rhody, "Gal and woman, I've washed clothes Good serve should be the Judge of both autor mearly sixty years, an I'm cld enough ter clent and motion rules; everything that does know wint's what in washin." Furthern crothes not conform to it is false.

inter coid water, let 'em kum slowly ter a bile, and bile 'em 'wenty minutes, au' I'll venter ter say you'll thank me for tellin' on you ter do it.

"An' jist let me tell yer another thing.
When your clothes stick ter the lines in winter

time, instead o' pulling at 'om, bend or lift 'om ight where the clothespin was stuck, an' they'll din off just us easy, an' won't tear at all. I've seen good cluthes, an' sheets, an' pillur-cases, orn inter stripes by bein' pulled off the line when a little stiff with frost.

So sunt Rhody had her say to Mrs. Finnigue, who, I hope, will profit by her advice.—Datsy Richalds.

Byebright

HINTS TO FARMERS.

A LIVERY stable mun in Connecticut, who accept ever 50 horses, is offering manure at \$3. so a load, and with each load he gives a chrome worth \$5. So he says.

A WESTERN local association of furmers have cooled to see to it " that no retired atternoy, or one of doubtful temperance principles, in placed on the bench of this district."

J. R. HOLMES, of Manchester has just sold five trees on his land in Clinton County, Mich., for 600. Four of the trees were black walnut and the other was a cherry. They were bought for he betreit market, and the same man offered 5080 for eighteen walnut trees standing on the same land, being the price that Holmes paid for the eighty acres.

English farmors are admonished by The World of Science that the best means of destroy. World of Science that the best means of destroying the larva of the cockchafer, which is so injurious to the roots of grass and wheat, is by deep plowing and encouraging the rooks to follow the plow and pick up the grubs. This is a costonable hint for us to refrain from killing or interfering with the crow blackbirds or the crows, birds which engerly search and devour all corts of injurious grubs, and notwithstanding their sable color are not so black as they are sainted. painted.

or Potatues.-Notwithstanding VARIETIES OF POTATUES.—Notwithstanding the new varioties introduced within a few years we have not succeeded in supplanting the old Peach Blow with a better kind. Yet it hasseveral faults, chief of which is the late period of ripening to dig it. It is almost impossible to get it into market time enough for chipment in the Fail. We want very much a potato which will keep as well as the Peach Blow, look as well, he as the finered, yet ripen from two will keep as well as the Peach Blow, look as well, be as the flavored, yet ripen from two weeks to a month earlier. The Harrisson is abundoned; the Peerless grows large and holtow, is a good kind to raise for freding hoga exhautable and no new whilety promises remarkably well. The Early Rose leads as an early variety, but it does not quite fill the place of the Peach Blow.

ROUGH ON THE PATENT RIGHTS MEN.—The Nebruska Legislature has enacted that a note iven for a patent right shall have the words.—Given for a Patent Right shall have the words of the for a Patent Right shall have the words of the act and that the value of the note may be instrict if subsequent investigation shall show that value was not received. Forther, if one wishes to sell a patent right in the State, he must get a certificate or permit, which he must show whenever he offers to sell. Failing in these and other things, he is subject to eriminal prosecution, and, on conviction, may be fined 500 or be imprisoned six months, or both, at the discretion of the court, and he is also liable for damages in a civil action. It is objected that this law is unconstitutional, and cannot stand, and that it will not be enforced; but it is to be hoped that it may exercise a salutary influence in keeping awindlers in check. ROUGH ON THE PATENT RIGHTS MEN.

ence in keeping awindlers in cheek.

Ennors IN Grouping.—At last one person in turce of those who plant trees in groups or belts for ornamental purposes commits errors in consequence of not taking " one long look ahead." Probably in many instances mistakes are made in consequence of the ignorance of the parties directing the planting of trees, as they judge of the future size from the specimens in hand, the largest being selected for centre of groups or background of belts. A few years, however, is only required to develop and show errors, and the tall, slim Arbor Vitco or Irish Juniper of today is soon overtopped by the stocky Norway or the tail, slim Aroor vito of this Junipe a to-day is soon overlooped by the stocky Norway or Hemlock Spruce. Planting ornamental trees is a work requiring some forethought, and it is not altogether for the present immediate effect that it is done, but for time far distant, and one i needs to have the future form, size, and general appearance of the trees in his mind's eye at the bestiming if he would avoid making blunders. PRUNES A LA RUSSE.—Slow one issued of primes with a little sugar and water till they propose seek them, and put back the kernols; then line the inside of a mould (first decorated with split almonds) with the primes, and keep on pouring in a dissolved gelatine) to make the whole turn out, the may be made in a mould with split, a which when the whole turn out, the may be made in a mould with a hole, which

GOLDEN GRAINS.

null emosoldness event at buest tientout A

A GRAND safeguard for doing sight is to link all that is wrong.

WHERE the mouth is sweet and the eyes in-telligent, there is always the look of beauty,

A HEART truly Christian is open, generous, and ever ready to make allowances for the infirmities and weaknesses of poor wee-worn humanity.

IF young and old persons would spend half the money in making others happy which they spend in dress and useless luxury how much more real pleasure it would give them.

It is a mistake to expect to receive welcome, hospitality, words of cheer, and help over rugged and difficult passes of life, in return for solishness, which cares for nothing in the worki bot itself.

TRUE LIFE.—The mere lapse of years is not life. To eat, drink, and sleep—to be exposed to darkness and light—to pace round in the mill of liablt, and turn thought into an implement of trade—this is not life. Knowledge, truth, love, beauty, goodness, faith, alone can give vitality to the mechanism of existence.

to the mechanism of existence.

BERNO WIRELY,...Look most to your spending. No matter what comes in, if more goes out you will always be poor. The art is not in making money, but in keeping it; little expenses, like mice in a barn, when they are many, make great waste. Hair by hair heads get bald; straw by straw the thatch goes off the cottage, and drop by drop the rain comes into the chamber. A barrel is soon empty, if the tap leaks but a drop a minute.

TRUE PHILLOSOPHY....When I could not ob-

TRUE PHILOSOPHY.—When I could not obtain large pleasures, I put together as many small ones as possible. Shall pleasures lie about as thick as dailes; and for that very reason are neglected, trodden under foot, instead of being worn in our button-holes. We cannot afford to buy roses at Christmas, or camellinas at any time; and so we counte buttercurs with and to buy rises at Christian, or camening, at any time; and so we couple buttercups with vulgarity, and things that grow in the hedge-side we let wither where they grow, for no other reason than that the king's highway is not a royal garden.

not a royal garden.

The Lesson of the Needle.—"How little notice is taken of you in the world?" said a pin to a needle. "You are always about your work, slipping in and out so softly, but never stopping to be praised. When a pretty dress is finished, who thinks of the needle that sewed it! Even the holes that you make are so small that they close up directly behind you." "I'm content to be useful," said the needle. "I do not ask to be praised. I do not remain in my work, it is true; but I leave behind me a thread which shows that my course has not been in vain." So let us pass through life, doing our duty as we go, remembered for some good work left behind when we ourselves have departed. parted.

parted.

The Struggle with Varity.—It is hard to resist the temptatica to be drawn into the vortex of showy, fashion, hie life. To live simply, to keep within one's means, to hold indulgence within safe bounds, to be content with such pleasures as may be innocently enjoyed, to make friends of the plain and unpretending, is not easy. It demands a long discipline in patience and self-denial, but the discipline is of turnest value. The most sterling and gracious qualities spring from it—traquility of mind, ease of conscience, peace of heart, temperance, sobriety, chastity, satisfaction with common joys, delight in humble pleasures, the taste for good books, the appreciation of good people, the uncomplaining and grateful temper, the moral integrity that is proofagainst corruption. In many cases the struggle with vanity is the previdential way by which such qualities are gained.

BE SENSIBLE—By not be above your business. He who turns up his nose at his work quarrels with bread and butter. He is a poor smith who is affeld of his own sparks; there is some discomfort in all trades except chimney sweeping. If sallers give up going to sea because of wet; if bakers left off baking bread because it is hot work; if ploughmen would not plough because of cold and heat; if inliers could not make our clothes for fear of pricking their flugger, what a pass we would come to. Nonseuse, my flue fellow, there's no shame THE STRUGGLE WITH VARITY .- It is hard to

when you can dig the fields with toothpick; blow ships along with fans; mature the crops with lavender water, and trome for dandle; the millenniam comes we a feat to part of the fields of the fields of the fields with toothpick; the millenniam comes we a feat to part of the fields with toothpick; but until the millenniam comes we a feat to part of the fields with toothpick; but until the millenniam comes we a feat to part of the fields with toothpick; but until the millenniam comes we are a feat to part of the fields with toothpick; blow ships along with fans; manure the crops with lavender water, and grow plum cakes in the millenniam comes we are a feat to part of the very to be.

5. My whole is to hoostate; beheaded, I'm a value, and who will be field with toothpick; twice curtailed, and I'm fifty.

6. A l'arrent of the very to be contained and transposed, I'm a value, and will be fine times for dandle; the millenniam comes we are a feat to part of the very to be.

6. My whole is to hoostate; beheaded, I'm a value, and I'm fifty.

6. My whole is to hoostate; beheaded, I'm a value, and I'm fifty.

6. My whole is to hoostate; beheaded, I'm a value, and I'm fifty.

6. My whole is to hoostate; beheaded, I'm a value, and I'm fifty.

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6. My whole is to hoostate; beheaded, I'm a value, and I'm fifty.

6. My whole is to hoostate; beheaded, I'm a value, and I'm fifty.

6. My whole is to hoostate; beheaded, I'm a value, and I'm fifty.

6. My whole is to hoostate; beheaded, I'm a value, and I'm fifty.

6. My whole is to hoostate; beheaded, I'm a value, and I'm fifty.

6. My whole is to hoostate; beheaded, I'm a value, and I'm fifty.

6. My whole is to hoostate; beheaded and transposed, I'm a value, and I'm fifty.

6. My whole is to hoostate; beheaded and transposed, I'm a value, and I'm fifty.

6. My whole is to hoostate; b flower pair, there will be fine times for dandle-; but until the millennium comes we shall adhave a deal to put up with.

HUMOROUS SCRAPS.

TRUE TO THE CORE.-A good apple. CHIFFOXIERS.—Men who live by hook and by crook.

Whar is that which never uses its teeth for cattug purposes !- A comb.

A TRUE American is two proud to beg and too honest tostoel. He gets trusted.

NEW READING OF AN OLD PROVERD. proposes, and woman soldom rotuces. WHAT to do if you split your sides with laughter. Run till you get a suich in them.

CLASSICAL AND COMMERCIAL.—When is a clumdering schoolboy like a frandulent shop-keeper? When he makes a false quantity.

WHAT would you do it you had some land that would not grow trees? Why, have it measured, and you would then heve some poles and

No. of the last of

"KEPATUMEATATERIN," WAS the note sent by a farmer to a school-teacher in the potato-digging season, to explain his boy's absence from school,

"WHAT'S THAT?" said a teacher, pointing to the letter X, to a little ragged archin.—" Daddy's name."—" No, my boy."—" Yes, it is; I've seen nim write it a good many times."

How to make one's self obnoxious—to walk down a crowded thoroughfare carrying a ladder on your shoulder, and to turn round every other minute to see if any one is looking at you.

A WETHERSFIELD chap who held a bronchial troobs in his mouth all night without producing my effect on his sore throat, was disgusted when he discovered that he had been chewing a tin button.

A MALICIOUS libel is going the rounds that vegetation is so scarce at Cape Cod that two mulion stalks and a whortloberry bush are called a grove. The truth is that unless there are three whortleberry bushes they never think of saying grove.

The muddest man in Camden is Smith. He wound up his clock regularly every night for fifteen years, and then discovered it was an eight-day clock. He muses on the work that he might have done in those wasted minutes, and his auger is dreadful.

OUR PUZZLER.

60. ENIGMA.

In the halls of the great, when the wine passeth

On the rich laden tables, I am e'er to be found.

(1) When the guests have all gone, and the night is fur past

The siumbering inmates I shield from the blust.

I roum o'er the world, on land and on sea,
And our proud, boasted navy would be nought
without me. (8)

I am flat, I am round, I'm square, I am bright,

(4)
Sometimes of no value, sometimes a rare sight.
I'm a broom, flowing river, a nation's great pride.
(5)
Yet to books you will find me the pure side.

Yet in books you will find me, the page, side

by side. (6)
Sometimes I'm so strong, a storm would but shake me, (7)
But ofitimes so weak you would easily break

me. (8) Of many materials I'm made, 'twill be seen

Of many materials I'm made, 'twill be seen,
Of iron, (9) brass, and copper, (10) and gold, too,
I ween, (11)
But not always these, as for lowlier use,
I'm made of base clay, the potter's preduce. (22)
Go wherever you will, you it find me employed,
Closely kept as a treasure, yet often destroyed,
I am useful to all, am employed every day,
And you greatly would miss me if I were way.

J. E. BOULTON.

61. DECAPITATIONS.

61. DECAPITATIONS.

1 Complete, I'm ashrill exclamation, beheaded, I'm a rich substance, again, and I'm a quantity of paper; transposed, I'm a female quadraped; curtailed, I injuce; transposed, I'm a parental appellation; again curtailed, I'm a thousand.

2. Complete, I'm trade; beheaded, I'm a rude construction; again, and I'm a ship term; transposed, I'm plump; out away my centre, and I'm an abbreviation of musical term.

5. Complete, I'm a number; beheade, I againy the heart; again, and I'm a metal; transposed, and I'm found in fish; curtailed and transposed, I'm an adverb, and curtailed, I'm othing.

And put a pig's therein. Theu add an eagle's head for fun, A number will be seen.

PRIZ.

ANSWERS.

57. CHARADES.—I, Bur-dock; 2, Cock-roach; 3, But-(tub)ton; 4. Bondage; 5, Log-word; 6. Wave-ring.

58 SQUARK WORDS.

| i. | 2, | |
|---------------|------------|--|
| KOKTE | N 3 8 E M | |
| OPERA | 1 2 4 2 1 | |
| X K Y ¥ R | SATAN | |
| TREAT | ENADI | |
| 37 4 79 77 42 | TO 11 % W. | |

59. DECAPITATIONS .- 1. Frills, rills, fl.s, L;

2 Gown, own, now, no, on, O.