# Zcientific American.

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Opinions about New Inventions.

new and useful improvements, and this very them all, and ever will. duty compels us to speak as freely against that: There are but few great and prominent inor discoverer. He will say, "oh, Galileo was press any opinion at all. persecuted, Robert Fulton was laughed at, and Professor Morse was ridiculed ;" he at once Coffee .-- Its Nature, Consumption, and Uses. claims a martyr relationship to the "mighty The coffee plant is a native of Yemen, in their sons becoming monkeys by its use, are there is, perhaps a kind of general tendency in before that time in France. the public mind to look with suspicion upon When coffee was first introduced into Briso many have been deceived by worthless in-!sumed to be true. ventions, and by things said to have been new, In the reign of Charles II., Coffee Houses over its walls.

It is absurd to suppose that the public has any natural feeling against new inventions; it Mocha, which is the best, comes down the Per-coffee; they beat the world for cotton and is not so; We have seen the Tabernacle in sian Gulf, from Arabia; its berries are of a rice, both of which were introduced from fothis city crowded to see the model of a balloon middling size, clean and plump, and of a greensail slowly through its lotty arch, and hear a ish light olive hue; it sells dearer than any as successfully cultivated as these have been. lecture upon its qualities, in which it was as-jother. The next best is Java, which is grown serted that it was capable of carrying torty in the Island of that name, and is cultivated passengers, in three days, from New York to by the Dutch. The other two kinds are the California. Passages were taken out for San Brazilian and West India coffee, which are ria attempted to give some reasons against its is a sight worth going to Jamaica to see. practibility, he was hissed down by the united. The quality and effects of coffee differ ac- Tobacco has also been raised on the island are no better than match boxes. We hope the

Scientific American rable art, and every one would be glad to see over-done. The Turks roast it in an iron a crop of cotton and tobacco. it successfully accomplished, and it is unrea- spoon, and roast it just before they are going sonable to suppose that there is any natural to use it. This is the best plan, as coffee loses opposition to any other desirable and good in- its flavor if exposed after being roasted. The vention; but is it not reasonable to suppose that those who are once deceived by an al-We have frequently expressed our decided leged invention, are made skeptics in a great opinions respecting the inutility and worthless- measure respecting others. It is so; and ness of some inventions, and have proved oth- in view of this fact, we have a duty to perform ers to be old, when alleged to be new. We to true and honest inventors and to the public, are conservatives in regard to what is old and in expressing our opinions about inventions good, and reformers in respect to what is new brought before the community; our object is and good. As the advocates of inventors' to do good, and whatever our opinions may rights, we like to say a good word in favor of have been, this honest conviction has dictated

which is worthless and calculated to deceive ventions-inventions, we mean, which stand the public. There never was a sham inven- as the head of a class, such as the "Steam Ention yet that was not claimed by its advocates, gine," and "The Telegraph." The very great and those interested in it, as "one of the great- majority of inventions are improvements, and est inventions of the age." There are many these are innumerable. From week to week inventors who make signal failures in the very they are going on, and improvement is added inventions about which they are most enthu- to improvement. We notice these improvesiastic. All inventors make some mistakes- ments, for well we know that some things, effects. Homopathic practitioners also use it but they are sincere and honest about them, supposed to be small, and appearing to be with success. and we know how to speak about and how to small improvements, involve great and imporfeel for them. But we have no sympathy for tant results. The great improvements in those speculators on the public, who deal in steam engines made by James Watt, were simsham inventions; nay, instead of having any ply making the vacuum chamber a separate feeling for them, we have always denounced one from the cylinder, and working the steam | the United States in 1850; the value of this such schemes, and we always will denounce on both sides of the piston. It has been the them. It is well known that whenever any same with other inventions and improvements, consumes so much coffee in proportion to its one of those speculators is opposed, and the and it always will be so. It is wrong to ex-inhabitants, as ours. Thus, last year, the aveutility of his alleged discovery condemned, he press a wanton opinion about any invention, always flies for relief to some great inventor and it is equally wrong, when able, not to ex-

dead and living," and be his invention ever so Arabia; the time of its introduction into Euworthless, he never fails to make an im-rope is unknown; it is mentioned in a work, pression, and sometimes a very strong one, in published in 1573, by a German physician nahis favor, by such an appeal. We heard such med L. Rauwolff. The Turks have Coffee an appeal made in favor of the celebrated Houses, in which they meet to ain their brown "new invention" now before our citizens to liquid, and chat together, like Englishmen m prevent fires. The object of the invention is their ale houses. Coffee houses are common developed anything extraordinary produced by a very laudable one, and an invention to ac- in Germany, and were, at one time, more comcomplish such an object is certainly a very de- mon in England than at the present moment sirable one. It is true that many excellent in- The first Coffee House opened in London was ventions have been sneered at, and their in- by a merchant of Turkey, named Edwards; ventors looked upon as crazy enthusiasts, and this was in 1652. Coffee was in public use

every new invention. There are reasons for tain it met with the most furious opposition this feeling; if all the inventions which have from old and young, grave and gay, men and been brought before the public, and alleged to women fair. In 1674 the women of England that those French soldiers who had saved some be new and good, had proved to be exactly as petitioned Parliament against allowing the use coffee and sugar during the terrible retreat they were represented, there would be no of coffee, in which petition it was stated "that want of public confidence in the success of a men, by its use, became like the desert of Aranew invention. Great discoveries and inven- bia, and that if its use was persisted in, the tions are desirable, they are welcomed by all offspring of mighty Anglo Saxon ancestors intelligent men, as boons to humanity; but would dwindle into a succession of apes and the public must be greatly excused for general pigmies; and on a domestic message, a husincredulity about their utility, because so ma-; band would stop by the way to drink a couple; ny worthless things have been, and are being of cups of coffee." Here we see the fair sex land all the coffee is adulterated with yellow continually thrust into public notice, for the were jealous for the honor of good old English mere purposes of gain. There are but few ale; and the question is, were they not right. among the great mass who can judge correct- Coffee, however, had and still has its advoly respecting even the apparent worth of an cates; it has been stated by them, that whereinvention, and there are fewer still who are ever it has been introduced, drunkenness has versed in the long history of inventions, so as become less frequent, and the people more soto judge correctly about the novelty or age of ber. We have no statistics to prove or disan invention alleged to be new. It is because prove this statement, but it may justly be as-

which have turned out to be old, that many were shut up in London by proclamation, in really good inventions have been, for a long which it was stated, "the retailing of coffee time, lightly esteemed, and have had hard bat-nourished sedition, spread lies, scandalized tles with inferior but older inventions. Eve- great men, and might be considered a common whose batteries tells deadliest against his in- open the Coffee Houses again, but the landlords the over four million of pounds, in 1790, to ove terests and the progress of useful discovery, were forbid to keep seditious papers on their one hundred and forty-four million of pounds, while, at the same time his banner is waving premises. The Coffee Houses had become in 1850, we cannot shut our eyes to the seempolitical club houses.

Four different kinds of coffee are used,-

assembly. All believed in the possibility of cording to the manner in which it is roasted, with satisfactory results. Mr. R. intends in above will be thoroughly investigated.

reason of this is evident; the roasting brings out the essential oil to the surface, this is volatile, and is the fine aromatic quality of the bean; it therefore soon evaporates when exposed to the atmosphere. To roast coffee aright it should be done by an invention patented a few years ago in England, it consists in using a copper drum silverized inside, into which are placed the beans, and the drum made to revolve above the fire, until the beans are done. It is best not to over-roast them.

The peculiar principle of coffee is the caffein, which was discovered by Robiquet in 1821; it is a very active principle, and affects the urinary organs. Water saturated with coffee was first used by Grindal, in the Russian Hospital of Dorpat, in the treatment of intermittent fevers; it was also given as a powder, raw. In eighty cases, not one resisted its

As an article of diet, and as a beverage, coffee has become quite a favorite, if we may judge from the quantity consumed. No less than 144,986,895 pounds were imported into was \$11,215,099. No country in the world rage amount of coffee consumed by each man woman, and child, was over seven pounds. The consumption of coffee has greatly increased in England, and it does not appear that the fears of the old English matrons, about

Coffee is now very generally used by all Europeans as well as the old Turks, and in almost all American families, for a breakfast beverage. Its effects upon the human system may be peculiar, but general use has not ye it, except it may be the healthy appearance and rugged strength of some French miners, who use it in large quantities: this fact was brought before the Academy of Sciences in Paris last year. In some armies and navies, coffee has wisely been substituted for grog; it would be well if this were the case in every single instance. In cold weather coffee is an agreeable and safe stimulant. It was noticed from Moscow, stood the cold much better than those who had none. Coffee affects the nerves of some people in a most singular manner, by making them trembling and feverish. No person so affected should use it. As a general thing, for almost every person, we believe it | rance. is a healthy and pleasant beverage. In Engdock-root, ground up along with the beans; the law allows of this adulteration, and yet, double the price it does in the United States.

Every family should buy their own beans and roast and grind them, for much of our ground coffee is also adulterated with roasted the least unhealthy, but there is no earthly use of anybody paying for corn instead of cofown coffee, why they can do it to suit them-

When we reflect upon the great quantity of ing necessity of growing coffee for ourselves. Our Southern States can surely raise good reign countries, and coffee, we think, can be

## Long Island Cotton.

Some cotton equal to Sea Island has been

the project. Safe aerial navigation is a desi- It must be roasted with great care, and not another season, we understand, to make quite

### American Pins.

There is a very pleasing article in the last number of "Hunt's Merchants' Magazine," respecting the manufacture of pins in the United States. To America belongs the credit of having invented the first pin machine: it was invented by Moses L. Morse, of Boston, during the war of 1812, but it never was used in manufacturing, as it was too delicate. Mr. Lemuel Wright, of Massachusetts, was the first person who irented a machine to make solid-headed pins. All the old pins were made with heads separate from the shanks; and, indeed, they were in general use in America-all imported-until a tew years ago. As pins were so dear during the last war, some pin manufacturers came out from England and set up the business in this city, but after the war they failed in business, as pins could be imported much cheaper than they could make them. Mr. Samuel Slocum, of Rhode Island, commenced the manufacture of solid-headed pins at Poughkeepsie, N. Y., in 1838. He took out a patent in England, but none in America: he used his machine secretly. In 1840 Mr. John J. Howe took out a patent (United States) for making solid-headed pins, and it is now in use by the Howe and American Pin Company. There are three American patents in existence for improvements on machines for making solid-headed pins: one is Slocum's, the other Fowler's, the next Howe's; they are all owned by one company in Waterbury, Conn. The pins made are much cheaper than the imported kind, which were in common use a few years ago. Some pins are still made at Poughkeepsie, but the Company at Waterbury make nearly all the pins used in our country. Both companies make their own wire. We have heard Englishmen say that our American pins are well formed and finished, but they are not tempered like the wire of the English pins, hence they

ted. The general run of our pins, in common use, we think inferior to the kind we sometimes see here, named "London Mixed," but then our pins are much cheaper.

## Danger of Factories by Fire.

On Wednesday evening last week, an extensive Cotton Factory, on Nixon and Hamilton streets, near Fairmont, Philadelphia, was destroyed by fire. The hands were at work in the upper stories when the fire broke out below, and several lives have been lost-mostly females. Six bodies are reported to have been already found-so charred that they cannot be recognized. One man jumped from the fourth story window and was killed. The loss is about \$40,000, partly covered by insu-

This great loss of life was owing, no doubt, to the bad arrangement of the stairs, which lead from one story to another. We have known of quite a number of such accidents for all this, the coffee there sells for about from the reprehensible arrangement of the outlets from the different flats in factories. There should always be an outside flight of stone or iron stairs, at each end of a large factory, from top to bottom. None but one corn and peas. These adulterations are not flight may be used daily, but for emergencies of fire, two should be built when the factory is put up. The poor beings who perished fee, and if anybody wishes to adulterate their amid the flames, in this factory, were cut off by the flames below, from finding their way out. Isolated stairs walled up from the rooms would allow free exit in all cases ry sham invention, therefore, is a curse to the nuisance." This arbitrary act occasioned vio-coffee now consumed by us every year, how of fire. The great majority of our stairs in honest inventor; it is a fortress the shot from lent discontent, and permission was given to that the consumption has increased from a lit- cotton factories are made of wood and not walled up between the carding, spinning, or weaving rooms. In the course of time, owing to the great quantity of oil used in factories, the stairs become as combustible as pitch pine. In the course of five minutes, if a fire broke out in the lower flat, the stairs would be burned down, and all escape from the upper stories cut off. This, by all accounts, appears to have been the case with the factory in Philadelphia. About 21 years ago, a similar scene was enacted at Johnstone, Scotland. Two yearsago, a like one in a factory near Manraised on Long Island, by Mr. A. P. Ricker, of chester, England. We should have factory Francisco, and when an ex-Governor of Libe-very similar. A field of coffee in full bloom Newtown, and it is believed that it can be inspectors as well as boiler inspectors, for we made a profitable crop by a little attention. know some factories that from top to bottom,