Scientific American.

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The Fair of the American Institute. After having opened on the first inst., the whole of the departments may now be said to kins makes excellent tools and has a good rebe in full operation. It seems that a full week is generally required to set all the wheels in operation. There are not, by a great deal, so many articles exhibited this year, and as we said last week, "the arrangement is better on this very account. Much trash has been refused, and there is room to walk about, less confusion, and consequently one article does not seem to be contending for the honor of covering up its fellow.

In the machinery room there are fewer machines, and not many actually new things, while a few old stagers are still to be seen on the shelves-such as an angular paddle wheel, which has flourished at every Fair within our recollection, and which is as worthless for practical purposes as a slap-jack would be.

The machinery is driven byone of Mr. Burden's beautiful engines, but there is less tax upon its powers this year than there was last.

COTTON SPINNING MACHINES .- There are two spinning frames exhibited, one is Dodge's Cop Spinner, which has been on exhibition before, but is now neater in construction, and considerably improved. The other is the Spinning Frame of Mr. Wanton Rouse, of Taunton, Mass., a very excellent machine. Mr. Rouse obtained a patent for a good improvement on this machine last year, and since then he has made one or two others. It does its work well, and is, in every respect, a beautiful machine; it was constructed by Mr. Robert Dean, of Taunton, aforesaid. One peculiar feature of this machine, and for which we had the pleasure of procuring a patent, consists in an auxiliary guide rail, which so guides the thread that it has the same amount of draught at every point in building the cope; this enables it to make a most beautiful, firm. and even cope. Another recent improvement is a peculiar cone cam to guide the rail. This cam has a rotary and a longitudinal movement to guide the rail in the most proper manner to lay on the thread as the cope increases in thickness. It is a valuable improvement.

TURNING LATHES.—Messrs. Scranton & Parshley, machinists, New Haven, Conn., exhibit quite a number of turning lathes and other tools. The price is affixed to each lathe, so he that runneth may read. We like this plan, for it at once presents to the eye the saleable value of the machine, and people can judge by the eye whether they are worth their price or not. We would like it if the price, was put on all machines.

Inventions Illustrated in the Sci. Am. suppose that Davis has had a revelation on a section of the chamber can be given upon a advise those who visit the gallery to give their the subject, having seen inhabitants of his plain surface. Mr. Webster is to the right of -In order to show that the inventions we pictures particular attention: they will find publish are of such a nature as not to be afraid other world with beards, butthat is very easily the central aisle, and is, of course, the figure of them full of self-commendation-requiring onof light and public examination, and are really accounted for, no razors being made there. the painting, to which all the others are accesly to be seen to be admired. There are some meritorious, we would state that a number of very prominent machines exhibited have been | oil paintings exhibited, but alas for the genius Copper in Wisconsin. sories. It embraces over one hundred portraits illustrated and described in our columns. An displayed. But we must be charitable, and Copper has been discovered near the village of distinguished characters, several of whom of Bad Axe. Mr. Smith, a merchant of that were recognized by us as excellent likenesses. will say this much in extenuation of doubtful excellent Rotary Pump. the invention of Mr. village, was one day out with his gun for a Mr. Healey has devoted several years to this merit, "the field was too great, not for the Carey, was illustrated on page 345, Vol. 3. The very excellent machine of Messrs. Adams | paint but the powers." few hours' sport. He had wounded a deer. work, and we regard it as reflecting the highand was following it up by the marks of blood est credit upon his skill. It stands in a mag-& Son, of Amherst, Mass., for making Felloes, New JERSEY ZINC .- There is a very inteon the grass, when he stumbled upon a sharp nificent frame, of large size, and is embellished was illustrated on page 169, Vol. 4. Mr. R. resting display of New Jersey Zinc Ores, the with unique designs. Every lover of art will point of some substance sticking up above the Cook's Blowing Engine, on pages 185 and 188 pure zinc made from it, and various oxides of surface of the ground. A moments' examina- be amply rewarded for the time spent in view-Vol. 5. The patent invention of Mr. Post, for zinc, now used for paints. We are glad to tion convinced him that he had found a piece ing this great work. Opening and Closing Window Shutters and know that the zinc paints are so beautiful and of native copper. He dislodged the mass Doors, and illustrated two weeks ago, on page enduring. Lead paints, which are very de-Porter's Tuyere Iron. from its bed, and taking it home, he found it to 19, is also exhibited and meets with much at- | structive to health, should not be countenanced We would call the attention of our readers weigh some 50 pounds. Encouraged by this tention. The Portable Furnaces, Blow Pipes, to the advertisement of Mr. Porter, in another where the zinc can be used. Zinc paints are discovery on his own land, he has been engaand Jeweller's Table of Messrs. Barron, illus- healthy and free from all injurious qualities. column of this paper. Mr. Porter has shown ged in sinking a shaft on the spot. He has trated on page 28, Vol. 5, are also there; so is With a public spirit well worthy of commenus certificates, commendatory of his invention, already taken out some 60,000 pounds of ore, | from some of the most extensive iron makers Porter's Forge Tuyere, illustrated on page 405, dation and being publicly noticed, this company has offered prizes for the best pieces of mixed with native mineral, valued at \$60 per in this city, and from what knowledge we Vol. 6, also displayed. thousand, and by "drifting ahead" in the cre-We may yet be able to dig out more inven- painting, to be brought in and exhibited as zinc have of his invention, we can confidently revices between the rocks, has found the vein to tions which have heretofore been illustrated painting. For a long time the zinc ore of New commend his Tuyere to any parties who have be of great value. Report assigns it a thick- | occasion to use such an article. and described by us. We have not had time Jersey lay valueless to our country: no plan to explore the whole ground, consequently we was known whereby it could be resolved eco- ness of seven feet, and a depth as yet unex-Stove Polish. plored. have not yet seen all. In the meantime let us | nomically from the ore. Eminent American We have again been favored with a speci-Culture of the Olive. say, these inventions are certainly much more and European chemists were consulted, but men of Stove Polish from the establishment of conspicuous on account of being published; they knew nothing about it. Experiment and R. Chisholm, Esq., of Beaufort, S. C., is cul-Messrs. Quarterman & Son, 114 John street, this is easily accounted for, thousands having sagacity have at last triumphed, but not until a tivating the olive tree from plants procured in and as is the case with every thing which descriptions of them, because we have now very short time ago, when, by a new discovethe neighborhood of Florence, in Italy. The emanates from their works, it is an article unthe largest circulation of any mechanical paper ' ry-a mechanical application-it is now made olive tree will grow throughout the cottonsurpassed by any polish or blacking we have growing region. The plant is of slow growth ever used. See advertising columns. in the world, and those who are interested in cheaply and well. The invention is an exand very hardy. We are glad to know that new improvements look to our columns as the hausting draught, whereby the zinc vapor is first source where such improvements are like- drawn from furnaces and condensed in large there is a prospect of cultivating the olive in the source where such improvements are like-Rice has been cultivated more than 150 years ly to be found. In alluding to the said ma-bags, the air passing through the bag, which our country, for assuredly the oils sold here in South Carolina. It was planted there in chines, as published by us, we at once refer to retains the metallic vapor. It is a most beau- for "pure olive," are fraudently mixed with the year 1693, and has been grown every the source where good descriptions of them tiful and ingenious application of art. The lard oil. It is a fine oil for table use, and is year since that time.

can be found; we therefore do not say anything about their nature at present.

IRON SHEARS AND PUNCHING MACHINES. putation. These tools are of good workmanship and of the common form.

SELF-STRIPPING CARDING MACHINE .-- J. P. Stillman & Co., of Westerley, R. I., exhibits a Self-stripping Carding Machine; this has long been a desideratum among cotton manufacturers; the machine works cleverly, and is a piece of the greatest curiosity at the Fair. Ey looking at it, nothing seems to be doing at all, when, all at once, up flies a flap of the cylinder cover and forward comes a flap, stripped clean as the leaf of a book. The only objection we have to it is the force used, and flapping noise made when the card is cleared. This may be remedied by some device, such as a buffer of india rubber or a covered spring.

STEAM GAUGES .- Mr. P. Stillman exhibits, as usual, an unrivalled case of beautiful instruments connected with steam engines and boil- not be confined to specimens prepared expressers. His Steam Vacuum and Water Gauge is 1 y for exhibition, but regard will be had to the a fine instrument, and for workmanship, they prices and quality of the articles, compared look like the handiwork of a master chronometer maker. Lowe's Pressure Gauge, of which Mr. Pirsson, No. 5 Wall street, is agent, is a very excellent and beautiful instrument.

MANGLES.-Of these useful domestic machines, a number are exhibited. The Spring Mangle, illustrated in Vol. 4, Sci. Am., is there as large as life, claimed to be a "patent," but al, a bronze medal, and a certificate. All arin the books of the Patent Office. It is a good invoice, stating the name and residence of the mangle, though, and is manufactured by Dun- maker and depositor. can & West, No. 51 Beekman street, this city, also by Smith, Torrey & Co., No. 50 Maiden Lane. It would be well for every family to have one of these machines, at least, if the family consists of more than three or four person

THE FINE ARTS .- The very first thing that strikes an observer, when he enters the portico, is a fine bronze casting of a huge mastiff, with an apparent mixed of the noble Spanish hound ; it is the work of Mr. Hoppin, of the firm of Bogardus & Hoppin, of this city. We wish this work of art had been sent to the London Exhibition, it would have done us much credit as a people as it does Mr. Hoppin personally. It is by far the finest work of the kind we have ever, seen.

DAGUERREOTYPES.—The Daguerreotypes of Messrs. M. A. & S. Root, in this city, are the finest exhibited. They are rich and full in tone, and have none of that dead and flat appearance which, in general, characterize and are found fault with in daguerreotypes. We

agents of this Company are S. T. Jones & Co., No. 53, Beaver street, this city.

MODEL OF MOUNT VERNON.-One feature J. T. Perkins, of Hudson, N. Y., exhibits good of great interest at the Fair is a miniature moiron shears and a punching machine. Mr. Per- | del of Mount Vernon, the place where the great pure, cheap olive oils, we will have better Washington lived, and where his ashes now repose. It is the work of Mr. Yates, and is the subject of great attraction.

We shall continue our observations next week.

The Exhibition of the Franklin Institute. This old and respectable institute holds its next fair in the halls of the Philadelphia Muwhich they shall be appointed. Awards will lustration :with the same description of foreign goods, and with specimens presented at former exhibitions; and no premium shall be awarded for an article that has received one at any former exhibition of the Institute. Three grades of premiums will be awarded, styled a first, second, and third premium, consisting of a silver medwe don't know where to find the record of it ticles deposited must be accompanied by an

Beards.

Mr. Andrew Jackson Davis, the celebrated Seer, comes out in the Hartford Times in favor of men wearing their beards. He says the hairs of the beard are ulumations or conunuations of nerves; those of the hard coating and membrane of the eye are connected with the beard on the upper lip, and when that is shaved off the nerves are exposed to injury; some diseases of the eye he attributes to shaving. In women, these nerves instead of terminating in the upper lip are buried in the cheeks, and have much to do in controlling the phenomena of blushing. Bronchitis and maladies of the lungs are produced by shaving off the beard on the chin. Mr. Davis also argues that mustachios are no obstacle in the way of eating, or any other function in which the lips are employed: an argument indeed which we cannot admit. The most uncomfortable thing to decent eating, appears to be mustachio, but every man to his taste; we

most extensively used in France, Switzerland, Germany, Britain, and Turkey, in preparing cotton for the beautiful Turkey red dye. None of this color is dyed in America; By having soaps, &c.

Poetry and the Fire Annihilator.

Mr. G. H. Cutter, the author of "The Song of Steam," and some other thrilling pieces of poetry, has added another leaf to his laurel by writing "The Song of the Fire Annihilator," which appeared in the "New York Daily Times," of Wednesday last week. The poeseum, and opens on the 21st inst. The rooms | try would have produced a very powerful efwere to be opened this week on Friday, for fect upon our mind, and would have lighted the reception of goods, and no goods can be 'up a flame of enthusiasm equal to that produentered for competition or premium after the ced by the "Song of Steam," and we should 20th, though they may be deposited for exhi- have defied all the fire annihilators in the bition. After the 25th no deposits will be world to have quenched it, if the author had received, except by special action of the Com- only lighted his poetical torch at the vestal mittee. It will close on the 1st of November. fire of truth; but in this case he unhappily has The judges are persons practically acquainted made a very wrong choice of a subject. Let with the several branches of manufactures on us quote the last two verses for the sake of il-

The hand of Science, that called me forth

My sceptre shall now obey; From the curse of this ruin I'll shield the earth,

Till the planets themselves decay ;-Till the solemn end of that final day When the stars from heaven shall fall,

And I myself shall be swept away, In the fire that consumeth all.

Then bear me forth to each distant land, And the scenes that ye so deplore-

The midnight blaze-the incendiary's brand Shall ravage the world no more

When your burning palaces light the skies, Like a signal of doom and death,

The flame that your utmost strength defies, I'll quench with a single breath.'

Mr. Cutter has formed the idea that no more Moscows, nor burning ships, nor palaces, will take place; but if a person goes down to the Fair at Castle Garden, and examines one of the Fire Annihilators, with the price (\$20) on it, he will be constrained to take a hearty laugh at the idea of a fire being quenched by a single breath of such a miserable substitute for the Fire Engine.

Healey's National Picture.

We examined a few days since, at the National Academy of Design, Healey's recently finished historical painting of Daniel Webster in the United States Senate Chamber, represented as he appeared in 1830, when he replied to the speech of Robert Y. Haynes, the then Senator from South Carolina. The United States Senate Chamber is in the form of a segment of a circle. The presiding officer's chair is in the centre of the straight line, or chord of the arc; so that, to include a view of the Vice President (John C. Calhoun) in his place, only