Scientific American.

NEW-YORK, DECEMBER 15, 1855.

Protection of Designs for Articles of Manufacture We learn from a recent number of the Phil adelphia Ledger that petitions are now in circulation in that city to obtain signatures, requesting Congress to extend the laws of copyright to all original designs to be printed on paper or cloth, or woven with other fabrics, original ones, and thus improve the national carried to the East and used for fuel; it havand all original designs of forms or for orna sign shall be entitled to an exclusive property The Ledger takes occasion to commend this ginating and preparing designs for articles of other sculptors. manufacture. It says:-

for that improvement in manufactures which will enable our manufacturers to compete with designs from fifteen to five dollars, will be the the most expert and skillful of other nations. means of encouraging a taste for getting up Those who expend money in improving their beautiful original designs for machines such productions ought to have the benefits of such as lathes, frames of steam engines, &c., caliimprovement. If they may be seized and used co patterns, &c., and even handsome labels for by others, without compensation, the moment | parcels, we go for it, with all our heart: "prothey are perfected and made public, the induce- gress and improve," is our watchword. ment to persevere in such inventions is destroyed, and our manufacturers will be content, therefore, to be the servile copyists of others, and always be behind them in originality and charcoal. It is but little known in our country skill Designs are just as much the result of except in cities where gas is made from bitulabor, of money, and mind, as books and minous coal, and in those localities where iron machines, both of which enjoy the benefit of is manufactured in the neighborhood of our legislative protection for definite periods of bituminous coal fields. In England it is mantime, and the effect has been to stimulate, in a ufactured on a most extensive scale in all the

sympathetic spirit with inventors, but such a $_{\rm I}$ there, and is the only fuel used on locomotives. movement in the city of Philadelphia, rather The manufacture of it, therefore, is an importsurprises us. Such a law as the petitioners ant business in that country, and why not in referred to pray for, is now in existence, and ours? We have bituminous coal fields of an every new and original design can be protected area so large that those of England, in comby it, not for three years merely, but for seven parison to them, are like mere onion beds to years. This law was passed on the 29th of extensive plantations; and yet we have been

ornament, to be placed on any article of manu or painted, or cast, or otherwise affixed on any therefore," &c.

The people of Philadelphia do not require any by the Ledger, as the present law is very full by tradesmen to distinguish their own manufactures, as well as all designs of artists.

those engaged in the stove business, who thus and provisions of such a law, or else it must be sylvania, the former proved to be far superior, in one day the ordinary hand labor of an entire tional policy to reduce the fee to this standard. it. The longer and higher the heat to which it \$100 to \$140. We have been informed that most of the de- is exposed the more it contracts, and consesigns or patterns used in our calico, oil cloth, quently the more dense it becomes. We are of

and paper print-works, are mere copies from the opinion that our coke burners do not sub- this inventor from licenses to use his shuttle, is Stirntific Zmericum.

and paper print-works, are their copies from the French, and simply for the reasons assigned by the French, and simply for the reasons assigned by the Ledger, namely, that it will not pay to nor do they maintain the heat so long as they of Co. are said to be making money at the rate expend much money in getting up new designs, should do in their coke ovens. These defects of \$75,000 a year from their sewing machines. because they are seized upon and made use of in the manufacture of coke, rather than the The Wheeler and Wilson Sewing Machine Co. by others in the same line of business, when- quality of our bituminous coal, we are of the are understood to make \$30,000 per annum. ever they are made public. Now, while the opinion, have been the cause which produced We might speak of a number of other very fee of \$15 for a patent on a good design, can the defective coke that was experimented with successful inventors and manufacturers in this offer no excuse for a manufacturer not protect- and condemned on several of our railroads. ing every beautiful new pattern or design, we also believe that a cheaper means of protecting | factured cheap enough at our great bituminous designs would promote a spirit to get up more | coal fields in the valley of the Ohio, so as to be $taste-transforming \ our \ pattern \ artists \ into \ ori-ing \ more \ bulk \ than \ anthracite \ coal, \ its \ carriage$ menting any article of manufacture, so that ginal designers, instead of mere copyists of must be more expensive, therefore it is much a fine taste for the beautiful; of this they have ulty of inventors to produce perfect anthratlere'n for a term not less than three years. given samples to the world in the persons of cite coal-burning locomotives. These reflec-West, Stewart, Alston, Cole, and a host of tions are indeed worthy of being acted upon; movement as a very proper one for the protec- other distinguished painters; and in the pertion of persons engaged in the business of ori- sons of Powers, Greenough, Crawford, and the same time they should also excite the own-

We go for the encouragement of improve-"Without such protection it is in vain to look | ments in all things—in articles of taste as well as utility. If by reducing the patent fees for

The Manufacture of Coke.-Railroad Fuel.

The substance named "coke" is simply coal high degree, both of these departments of in-tellectual labor." coal mining districts, and is used extensively tellectual labor. It is The remarks of the Ledger exhibit a true employed in all the brass and iron foundries August, 1852. Section third of the Act says: informed that the quality of our coal is un-"A citizen or citizens, who, by his, her, or suited to the manufacture of coke, and in this their own industry, genius, efforts, and expense, respect is inferior to English coal, especially may have invented, or produced any new and for locomotive fuel. We do not believe this; original design for a manufacture, whether of we are confident that as good coke for fuel metal or other material, or materials, or any can be made from some kinds of American new and original design for the printing of coals as from English coals. If so, would it woolen, silk, cotton, or other fabrics, or any not be well to manufacture it, and use it on new and original design for a bust, statue, or railroads as a substitute for wood fuel? The bas-relief, or composition in alto or basso-re- price of wood is continually rising in the Eastlievo, or any new and original impression or ern States, and the railroad companies must soon be driven to adopt some other kind or facture; or any new and useful pattern, or fuel. Thus, on the Western or Boston and Alprint, or picture. either worked on, or printed, bany Railroad, the bill for fuel last year exceeded that of the previous one by \$50,000, and article of manufacture," &c. "on application that of the previous year exceeded that of 1852 for a patent to the Commissioner of Patents, by \$50,000. The increasing expense for wood on due proceeding had he may grant a patent on this railroad has greatly exceeded thenatu-| ral increase of business, and the Directors of it This law fully covers all articles of design are deeply impressed with the necessity of oband ornament, and grants the authors of such, | taining a cheaper substitute. If coal-burning protection in their invention for seven years. | locomotives can be made to run more economically, and can be as easily managed as those new law to protect the class of objects named which now use wood, then nothing more is wanted, for assuredly, it must be more econoand complete, embracing the marks adopted | mical to use anthracite coal forfuelthan to use cooked coal, (coke) or wood. But if good coke the sum of \$30,000. This sewing machine is s gn; and we think it must be owing to their Hudson River Railroad with the coke obtained ble. We are told that a seampstress with the ward a petition and pre-pay the postage. want of knowledge regarding the existence from our city gas works and some from Penn- aid of one of these machines, will be able to do owing to the fee (\$15) being too high. We and for the simple reason, we believe, that the week. The Messrs. Jerome are at present enhave no doubt but far more articles of design coal from which it was made was subjected to gaged in constructing machinery for the manuwould be patented, if the fee were reduced to a much higher heat in the retort than the facture of this improvement on a large scale, five dollars. As this sum would be sufficient Pennsylvania coal, which was coked in ovens. to cover all the expenses of the Patent Office, There is a manifest advantage in subjecting Retail price of the machine, \$10. The best in registering designs, it would be an act of na- bituminous coal to a very high heat in coking

It may be said that coke can never be manuthey touch the very root of the matter, but at a ers of mines in our bituminous coal fields to greater exertions in the manufacture of good coke. All the volatile products of coke ovens have hitherto been allowed to escape into the atmosphere, no attempt has been made to save them. Now we believe that it might be found profitable to manufacture a superior kind of coke, save the volatile products, and employ them for useful purposes, especially the ammonia contained in them, which might be saved and converted into valuable salts for agricultural purposes.

We have received communications from time to time, from various correspondents engaged in the iron manufacture in different parts of Pennsylvania, Virginia, and Ohio, requesting information respecting the removal of sulphur from coal in making coke. We remember the tenor of one received about three years since, which ran thus :- "Do you know any method of removing the sulphur from coal in the manufacture of coke, which I use in smelting my iron? I believe it is the principal cause $\boldsymbol{\sigma} f$ sired information, but now we have something to say on this very point. At the late meeting Calvert read a paper on the iron manufacture, in which he stated that by mixing about hall a bushel of common salt with every tun of coal in the coke-oven the coke so made gave off no sulphurous fumes, and when used in a cupola in smelting, it produced iron much closer in grain, and 20 per cent. stronger than that made from common coke. This coke was also superior for locomotive use. This information may be of importance to some of our iron proved. Those who have tried to invent, but manufacturers, who might also try the effects of salt in their blast furnaces, as Prof. Calvert and continued, the light will at last break stated, that when thus used it improved the through. iron, though not to such a degree as by using the purified coke.

Hints on the Value of Patents.

We are informed that a sale of a portion of the right to Wood's Patent Shingle Machine has lately been made at Albany, N. Y., for the sum possible. A neglect of this simple duty has, of \$35,000. It is a good invention, and the in many instances, been the means of dashing purchasers will probably quadruple their in- from the lips of the inventor, the cup of hapvestment in a short time.

It is understood that the Messrs. Jerome, of New Haven, Conn., the celebrated clock mak- ous." In regard to the obtaining of patents ers, have recently purchased a portion of the this is emphatically true. right to Robertson's patent Sewing Machine for and in January next will be ready to fill orders. sewing machines of the other makers cost from

Speaking of sewing machines reminds us of

line of business, but it is unnecessary.

Rights for Sandford's Patent Hand Corn Planter, we are informed, have been sold to the amount of \$30,000. Wakefield's Patent Hand Corn Planter has been sold for a still larger sum; a single manufacturer of this invention at New Haven, Conn., is said to have realized a the author or proprietor of such original de- foreign patterns and designs. Our people have wiser to exert every energy to incite every fac- profit on the same of \$40,000 during the past

> Win. Mount Storms' Patent Cloud Engine is reported to have been sold to a company of wealthy gentlemen in this city. Capital stock paid in, \$500,000, of which a large proportion was received by the inventor.

> D. W. Clark, of Bridgeport, Conn., is understood to have received \$30,000 for his Patent

One half of a certain patent Curtain Fixture contrivance, which permits the curtain to be raised or lowered from the top, is said to have sold for \$4,000.

A small portion of the right to Smith & Fenwick's Patent Apple Paring Machine lately brought \$2,000.

Creamer's Patent Car Brake is said to have been purchased by a company for \$250,000.

A single right to use Winter's Patent Wood Sawing Machine has been sold to a certain railroad company in this vicinity, we are told, for \$2,000.

A single right to use Kitson's Patent Cotton Picker, sold to a certain factory, brought the inventor, if our information is correct, the sum of \$2,300.

We could fill our paper with facts like the above, if we were to take time for their collecmaking inferior iron, and if it were entirely re- tion. They are of use and interest as illusmoved a very improved quality would be the trating the value of all kinds of patent proresult." We could not then give him the de- | perty; they are likewise encouraging and stimulating to inventors. It is chiefly for this latter reason that we have presented them. At of the British Association of Science, Prof. | the present moment we think of no class of individuals who enjoy such golden opportunities of success as those whom Providence has favored with a genius for mechanics. We are not surprised that this country so abounds with new inventions; the only wonder is, that there are not ten patents where one now exists. The demand is far greater than the supply.

The long evenings of winter present ample time for thought, and should be constantly imfailed, should try again. If effort be earnest

Persons who invent, or become interested in inventions should remember one thing: no discovery is of much pecuniary value in this country until it is patented. The first step, theretore, after an invention has been thought out, is to secure its advantages, by law, as soon as piness which he was about to quaff. It is an old maxim that tells us "Delays are danger-

Woodworth Patent Remonstrances.

At the request of several of our subscribers, can be obtained cheap, there is no difficulty in said to be a remarkable novelty. In size it is we have had printed a large number of peti-The present law, however, might be amend- the method of using it for locomotive fuel, like scarcely larger than the little sewing birds tions against the extension of the Woodworth ed so as to reduce the patent fee from \$15 to a that which has hitherto been experienced in used by the ladies, and may easily be carried Patent, which we are anxious to have distribsmaller sum, such as \$5, or even one dollar. the caking of anthracite coal in the fire-boxes in the pocket. In external appearance it is uted as soon as possible. They ought now to Very few artists or manufacturers (excepting of these engines. We apprehend that the coke highly ornamental. Its construction is so sim- be put in active circulation for signatures: let which has been tried and condemned on several ple that a child of five years can operate it this be done without delay, and there is not exhibit great spirit,) take advantage of the railroad experiments was not well made. We with success. For the use of families and in- much fear of the result. Upon the receipt of law for protecting patterns, or articles of de- know that in some experiments made on the dividuals the invention appears to be admira- two three-cent postage starups, we will for-

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Australian Expedition.

An expedition has been fittedout in Australia to explore the Victoria river. The party is composed of eighteen persons, and will be absent three years. It is believed they will bring back much to add to the treasury of natural and geological knowledge.

The factory of Mr. Kellog, in Skeneateles, the profit on Howe's Patent. The income of N.Y. is lighted with the Benzole light.