
Correspondence of the Scientific American．
Washington City，Dec．26， 1850. At the Patent Office a considerablo number of workmen are employed in working the mar－ ble blocks to be in readiness for spring．This beautiful material will outlast any other in the City．It is expected that Congress will make an early aperopriation for the completion of the building．The interior of the depart－ ment is daily thronged with visitors at the rate of four hundred per day．Messrs．Varden and Campbell are making great improvements in the gallery by a rearrangement of the splen． did pictures．Within the past two weeks $\$ 60$ has been contributed，through the box in the gallery to the Washington monument．
The Baltimoreans are rejoicing over the in－ vention by a mechanic of that city，of a fan which is kept in motion by clock－work running ten hours．When stationed on the top of the bedstead，it will keep the sleeper cool and com－ fortable during sultry nights．It will be a de－ cided luxury．A person named Parker is here endeavoring to procure a patent for a Water Guage，but I understand that a Caveat for a similar invention was filed about a year since by an English inventor．
The Virginia and Tennessee Railroad Co． are about to build a Rolling Mill for the manu－ facture of their own iron；they think that a saving of about $\$ 300,000$ per annum will be effected byit．A pair of Georgia Burr Mill Stones have recently been received at a mill in Norfolk，Va．，from Savannah．They have ex－ cited considerable attention；formerly such kind of stones were all imported from France， but Mr．Hoyt，of Savannah，made the discov－ ery of the Georgia Burr bed，which promises to supersede the foreign．The stones are fitted for a $4 \frac{3}{2}$ feet circle，weigh about 1600 pounds each，and are of a superior quali y．
The fire－proof calico，prepared with the phosphate of magnesia，is nuw finding an extensive sale in this section，It is an admi－ rable thing for children．The war steamer Saranac is expected to receive steaming orders in a few days．There is a great want of en－ gineers in this branch of the service，owing to the fact that so many of them resign for pri－ vate vessels．A couple of very elegant cars have just been completed for the Washington and Baltimore Luailroad．Thy feet long，and will hold 52 passengers each．They are furnished with mahogany spring seats，cov－
ered with plush velvet．One of these cars rests upon 16 eliptic springs，on Perkins＇plan．The other is upon the same number of gum elastic springs of Fuller＇s patent．Both have the side swing motion of Davenport and Bridges＇ plan，which resembles the gentle rocking of a cradle．On the whole these cars are said to excel anything of the kind in this part of the country．The account in your last number of a negro whose skin was changed to white by the bite of a rattle－snake，is an interesting fact，and a celebrated scientific gentleman here intends to allude to it in his Ferthooming lec－ ture，on＂The various Colors of the Human Race．＂The petition referred to the Patent Committee of the House for renewing the Pa － tent of Moore \＆Haskell on a Harvesting Ma chine，has been reported on favorably．
The lectures of Professor Alexander，at the Smithsonian Institute，were well attended．It is a pity the architect made the room so small． It does not accommodate one half of the peo ple who desire to attend．
［The machine to which our correspondent refors，invented by a Baltimore mechanic，for sleeping softly，is a good thing，but the Balti－ more inventor has been anticipated ：old Corm－ modore Barron took out a patent for the same kind of invention in 1831，we think．A mo－ del of such a machine was in our office for months in the beginning of last year，and the
inventor of it had used it in the tropics a inventor of it ha
number of years．

We are happy to hear from our correspon Burn about the introduction of the Georgi currs into Virginia．We have had some spe－
cimens of the stone for a long time，in our pos．

Ression，and we noticed it in our last Volume
－［ED．

## Patent Office Report．

The New York Tribune has published about one half of the unprinted Report of Mr．Ew bank．It is a very long document，but a very able one．We hereby publish some extracts from it，to show its power ：
errors entertained of inventors．
It is a prevalent opinion that both ordinary and extraordinary inventions cost their authors little labor and thought to develope；nothing is more erroneous．It is an essential element of man＇s being，and of the constitution of things under which he exists，that all truths，mechan－ ical or philosophical，can only be realized by strenuous and continued effort．Our percep－ tive faculties are too obtuse，and happily for us it is so，to apprehend them at a glance．In that case，they would be held too cheap to be looked for，and deemed worthless when seen． where would be their value？If virtue cost noth－ ing，it would cease to be virtue．No fact is clearer than that man＇s destinies are in his own hands，and that he alone can exalt and debase them．To rouse him to be faithful to hiuself is Nature＇s ceaseless care．With pow－ ers dormant in him and equal to every exigence， she leaves him to exert them or not．She does asught for him that he can do for himself，and has taken care that he shall know nothing， have nothing that he does not strive for．Then how common is it to hear ingenious men dis－ paraged by ascribing their best things to lucky or random suggestions－whereas chance inven－ tions，if such things ever were，are much rarer than supposed．Though appearing fortuit－ ous，they may be traced to previous reasonings or reflections ：－sprouting seeds whose transi－ ent plantings had been little noticed and forgot－ en．They had never sprung up had they not fallen on soils prepared by previous culture to eceive them．Sparks set not sand on fire，nor do fruitial ideas germinate in barren minds Flashes of thought，like those of the electric flu－ id，may dart suddenly and unexpecdly，－but they are not less the regular effects of inducing causes．Inspiration descends not in its high， ist or its lowest forms but on those who seek to be inspired．
It is not given to man to perfect aught with outtoil and seldom withont long continued toi The smith forges not a plowshare with a blow nor any new device，however simple，matured ans peine－a universal truth
The power inventors wield is not less man ifest in the changes they have wrought in the habits，customs and occupations of females， than it is obvious in the pursuites of the other sex，in the outdoor world．They have not only broken up the honored arrangements of the sitchen，wash－house and dairy，but have inva ded the parlor and even boudoir．A century go the rock and spindle were common；－in Europe are women who still twist thread with
teir fingers．Fifty years since the wheel had place in every dwelling，and carding no．les han spinning，was a domestic duty．With hrifty housewives the shuttle，too，was not a stranger，within twenty years knitting was in dispensable；not a few of our farmers stil wear home－made hose．Then straw plaiting， tambøur working，lace making，plain and fan－ cy cmbroidery，with other delicate operation of the needle，were and are still taught as ne－ essary accomplishments such they will hardly be held much longer，since these and various other performinces are new done by automatic fingers with a precision，regularity，dispatch， delicacy of touch and finish that no huma organs can rival．
Most，if not all，the Fine Arts have been subdued by mechanism．The lathe is still to be met with in its primitive forms，in the pot ters wheel，the spring－pole，and in the modern Egyptians arteloior－（seated on the ground， this artist empolys one hand to revolve the ob ect to be formed，holds the cutting tool in the ther，and presses it on the rest with his toes．） The lathe，so long confined to shape articles whose sections were circles，now produces oval， elliptical，epicycloidal and eccentric work copies，medallions，and even busts inequal en
larged or reduced proportions－performing the work of the engraver，die－sinker and statuary or sculptor．
The richest figured tapestry and damask in relief are now produced by magic • mechanism Looms rival the palette and burin ；beside gor－ geously colored carpets they weave landscapes equal to oil paintings and portraits after the fi－ nest line engravings．Then，from the increase in number of sewing machines，the time would seem not distant when the needle itself and thimble will be exhibited in museums with dis－ taffs，spinning－wheels，knitting wires，tambor frames，hand－looms，lace－making bobbins，spil－ lons，and other antiquarian curiosities，as evi－ dences of imperfect civilization．In chromo－ lithography，automaton artists rival the finest touches of old masters，and shortly will muiti－ ply by millions their most esteemed produc－ tions．

## Passengers＇Baggage and Railroad Regur

 1attons．A radical reform is demanded by the public， from the majority of our railroads，in receiving and delivering the baggage of passengers． Every railroad should have outside porters to receive and take charge of passengers＇baggage as soon as it is landed on the sidewalk，and they should direct the passengers where to get their tickets，and to the right cars．They might have hats with some maris on them，or some other insignia，to point them out．There should also be temporary sign boards hung up on the side of the cars in the depot，such as－ ＂These cars take passengers for New Haven， and also the Housatonic ronte，and start at 8 A．M．＂This sign could be removed when the cars start．Some of our railroads appear to blunder into success．against the worst pos－ sible regulations．At the depot in Canal street， New York，the owner of baggage is required to deposite it on bard the baggage car，or upon the top of a table near it，before the porters of the company take any cognizance of it．Now this is always excecuingly inconvenient and often almost impossible．When ladies are travelling alone，their baggage is set upon the nidewalk by the hackman，who considers bis task ended；and it then becomes a serious dif－ ficulty to get it placed in the baggage car．She must then search for the ticket window，about the size of a decent bat＇s wing，and known only by a crowd around it，barring access to a lady until the very last moment，when the cars are to start．This should not be－there should be two windows，always one for the la－ dies．In some depots，at the end of the jour－ ney，the delivery of baggage is managed in a very miserable manner．The baggage cars from Philadelphia are opened on the ferry oat－and every passenger is expected to come forward and claim his baggage when the num－ ber is called．This，with hundreds crowding around and pushing in every direction，is al－ most impossible，especially for the＂women folks．＂At Greenbush，opposite Albany，at Albany，Utica，and other places，the baggag is thrown upon a platiorm，and each one is re－ quired，in a dense crowd of hundreds，to come forward and claim his own．On the road from Baltimөre to Philadelphia a man is allowed by the company to go through the cars and ask permission to take charge of baggage belonging to passengers on reaching the city．He receives their checks，takes the street and number at which each truak is to be delivered，and gives in retum a card certifying his security for the baggage to the amountof $\$ 100$ ．This ends the traveller＇s care as to his baggage．When the train reaches Philadelphia，he goes to his hotel or his house，and in half an hour his baggage deposited at his door，for which he pays twen ty－five cents．Those who do not choose to avail themselves of the offer，can of course take charge of the baggage themselves，and then the annoyance and trouble are voluntarily assumed． Some other railroads have the same regula－ tions，and every one should adopt it，along with those we have suggested．The extra ex－ pense would be，we are persuaded，a saving in the long run．There are many ladies who would think nothing of taking a journey alone， if our railroads were better managed at the different stations，but with the present regula－ tions they are wise to stay at home．

Mechanics in Congress
It is said that nearly one－half of the mem bers of the present Congress were once journey men mechanics．If so，（says the Washingtan correspondent of the Charleston News，）this is an interesting fact，and shows what persever－ ance can accomplish．These men have be－ come great，not so much from the facilities for common knowledge，which our systems of education aford，as from a self－reliance which a sense of independence confers．It has been truly said that the moment you make a man politically equal with his fellow，you give hir a conscionsness that he is so in all respects．
serious Accident in a Rolling Min． A letter dated Danville，January 8th，says that in the rolling mill there，the large fly wheel，weighing from twenty－five to thirty tons， burstasmider，and scattered the roof and ma－ chinery at a fearful rate．Pieces weighing 3 ， 4，and even 6 tons，were harled through the rof，crushing everything before them．Óne man only was slightly injured．The damage cannot be less than $\$ 10,000$－it may reach $\$ 30,000$ ．It is believed to have been done ly some villain，who threw a piece ofiron between the cogs of the main wheels．This unfortunate affair throws hundreds of laborers out of em mənt．

Breovery in tranning．
We are informed by a correspondent from New Oxford，Pa，that Mr．Wm．H．Rosensteel， of that place，has discovered a new and valued improvement in the mode of Tanning Leather， which has been tried for nine months，and which，it is said，will save＂one－fourth of the bark and make the stock weigh at least three lbs．more per hide，tanning in one－third of the usual time，and making a better looking arti－ le．＂These are very important improvements， especially as only one－fourth of the customary number of vats are employed，consequentlyne less than one half of the usual labor is saved． We are net able to describe the process，but or correspondent is one on whom we place every confidence in what he asserts．

## Great Launch．

More than twenty－five thousand persons con． gregated at the Dry Dock，last Monday morn－ ing，to see the novei spectacle of the launch of three steamers，one of them with her engines ready to work，and one the gigantic ocean teamship Arctic．Every roof，window，bal－ cony，fence，pile of imber，pier，carriage，ad－ ent ship，or foating craft that could afford a point of view，was crowded with eager spec－ tators．There can hardly be a doubt chatmore people were collected on this occasion than any one purpose has drawn together for years．The steamer New World was launched with all he machinery aboard and the steam up．The Aretic is 3,500 tons burden，and is one of Mr ． Collins＇line．The launch was splendid．

## An Hquestrian Fent

The Swansea，（Rng．）Herald publishes the following item of sporting intelligence：＂Last week，a hare，pursued by some greyhounds， ifter several turns，and being hardly pressed， umped on the back of a young horse，where she fixed herselfastride．The affrighted ani－ mal not being accustomed so such a rider， bounded off at full speed，kicking and plung－ ing，accompanied by the dogs．This continu－ ed from four to five minutes，when，choosing a favorable situation，puss hopped off，and very gallantly made her escape．＂

## Utica Water Worlas．

Utica has just completed her water works， which give them a copious supply of pure wa－ ter at the cost of only $\$ 75,000$ ．It has a great head，and the hydrants carry water 30 feet above the spires of their churches．Its bene－ fits in cases of fire will more than pay the whole cost of the works．
Six large American eagles alighted upon the ice，in Sandusky Bay，a few days since，where they remained for some time，probably wait－ ingfor their skates．
The city track of the Harlem Railroad will soon be laid with heavy rail．
Colt，the inventor of the famous pistol，has been presented to the Sultan of Turkey．

