
o our Contemporarie
To Editors generally, we extend our warm est thanks for their complimentary notices o the Scientific American, we should gladly make room for them all, but the crowded state of our columns will not allow us the pleasure. We are highly gratified with the manner in which the "Prize Essay has been received by them, and it speaks well for the journals that have copied the suggestions made by the author (Mr. Maher) inasmuch as it manifests their willingness to benefit that class of individuals whose efforts demand the earnest co-operation of legislators. Our object has been to awaken a more general interest in behalf of inventors, and if possible to create a reform in the existing Patent laws f we have contributed in any degree to accomplish this required reformation, we shall feel abundantly rewarded.
There is not a paper published in this country that has not more or less subscribers, who feel a deep interest in mechanical improvements, and we take it upon ourselves to say that any suggestions upon this subject will be read by them with satisfaction and profit.
We advise mechanics in every village to hold meetings and be prepared to present petitions as soon as Congress assembles in De cember and not trust their interests in the hands of a few demagogues whose sole object s to secure some lucrative office under the Government. Any petitions sent to us (post paid) will be promptly forwarded to Washington as soon as Congress assembles. Now is a good time for action and we shall be pleased to hear from as many as may deem these suggestions worthy of notice

## Griffin, Geo. May 1st 1848

Messre. Munn \& Co.
Gentlemen.-Enclosed I send you the amount of another year's subscription to your valuable journal. I assure you, I wish the Scientific American to obtain a wide spread circulation, I wish it as well for your advantage and for the benefits it must yield to all classes, and particularly to those for whom it is more expressly designed. I am not a mechanic nor an inventor, yet I feel a lively inerest in all the improvements and discoveries of the age, besides I have in several instances derived actual profit from the perusal of your paper, in the various articles of domestic économy. We see in almost every newspaper of the day receipts for various purposes, which when tried are seldom found to succeed, I am happy however to say that those which come approved by the Editors of the scientific American may be invariably depended upon.

I am, Gentlemen, yours truly
J. C. M-
(The above is from one of our oldest subcribers, and is but a stereotype of letters received by us weekly.-Ens.

## Hydraulle Engine.

The Glasgow (Scotland) Citizen, says: "In noticing the hydraulic cranes at the General Terminus Rail way Company's Wharf, some months since, we stated our conviction that the time was rot distant that the new power or new application of power-the pressure of water in air tight pipes-would be made largely available as a motive force. We have now the satistaction of stating that there is no longer any doubt as to the applicability of this power to machinery. We have had the pleasure of inspecting a model engine in the office of the Corbals Gravitation Water Company, Portland-Street-and which is the most beautiful and simple contrivance we ever saw.The model is about one-horse power, with a horizontal cylinder, and having a twelve-inch stroke. The water, which here has a pressure of about 201 feet, is in troduced to it from a common house-pipe; and such is the simplicity of the machine, that a child could work it and regulate its speed at pleasure by
the mere turning of a handle. The great
advantage of this engine consists in the fact that it can be put up in any flat of a house of any street, -wherever, in fact. there is a wa-ter-pipe. It takes up very little room ; it registers the quantity of water it used (which by the way, may be again available for several purposes, as it leaves the engine as pure as when it entered;) and it may be erected in those localities in cities where steam-power is prohibited on account of danger and nuisance from smoke; and without raising the rate of insurance. It will be much cheaper in every respect than a steam-power engine The model has been constructed by Messrs James Steel and Sons, Dundee. In all processes requiring engines of from two to six or eight horse-pow er such as coffee-grinding, baking, turning, letter-press machine printing \&c , the gravitating water-power engine mus speedily come into general use."
The engraving and description of an hvdrauic engine, will be found on page 213. vol. 2 Scientific Ameriean, invented by Mr. E. Bi shop. We have heard that ther: are tw such engines in operation in Liverpool, England, and in some other places. They are in ful in sur operation, and might

New Electrical Instrument.
M. Chevaler; a French gentleman who has paid some attention to electric phenomena, has brought to perfection an apparatus, which early as the days of Franklin was suggested by some of the experimentalists, by whose means an electric shock can be conveyed at a considerable distance, even through a whole line of individuals. It is of so small a compass that it can be carried in the pocket; by means of a string thrown from amidst a flock of sheep twelve fell down And the shock may be so violent as to cause instantaneous death without the hand of the perpetrator being visible or recognized. The discovery is rather a mischievous than a useful one.
[The above we copy from an exchange and know not the one from which we took it Th fact of prostrating the sheep we consider to oe equal to any feat ever accomp lished by the fa mous Munchausen.

## A Curlosity.

An English paper states that there has been exhibiting at the Egyptian Hall London, a full length miniature of a female discovered by Mr Eades in a block of marble which he was preparing for an obelisk ; discovered perfec in itself. Mr. Eades thus describes it :
" This unprecedented phenomena of hu man nature is a most mysterious and truly astonishing full length miniature of a lady three inches in height, in the costume of the aristocracy of the present time : possessing the most accurate and pleasing features, gracefu figure, beautifulringlets-upon the head of an elegantcottage bonnet, to which is attach ed a superb veil ; under her arm she carries a fashionable muff, which has the appearance of one of the most recherche of the Hudson Bay Company. The incomparable miniature has been examined by several eminent anti quaries, scientific gentlemen, first rate artists, and numerous distinguished ladies and gentlemen, who have unanimously pronounced it to be the finest specimen boheld, and may be challenged against the world !-so perfecly uniform in every particular, combining grace and elegance that it appears a production of Mr. Martin's or some other celebrated artist."

## Weather, Fruits, \&c

In Ohio, the horticulturists say the Fruit, wing to its backwardness, has escaped the late frosts without injury. Accounts, how ever from Georgia, South Carolina, Alabama, and a portion of Florida, generally agree tha the Wheat crop, and that portion of the Cotton crop which was up, have been almost entirely destroyed. The Corn has suffered great injury also, but this can be remedied by replanting. If the weather has been so severe in Mississippi, Louisiana, Texas and Arkansas, as it was in Georgia, it must have the ef fect of geeatiy curtailing the cotton and wheat crops, and consequently of raising prices.There is not Cotton seed enough in the country to replant the crop, but the injury to the Wheat may, in some degree, be repaired by planting more largely of Corn.
ratus.
In the vicinity of Blazing Star, New Jerey, Officers Brown and Leonard of this city made a most extensive seizure on the 1st, inst of an immense coining apparatus for coining counterfeit Mexican dollars and American quarter and half dollars. The apparatus was contained in 16 boxes. There is among it a powerful screw press; the lever used in operating with it is eight feet long, and has at each end a 32 pound cannon ball. The rest of the apparatus seized consisted of a bed-plate milling apparatus, crucibles, a large quantity of tools, chemicals, \&c. and some boxes of counterfeit coin in a finished and unfinished state. The dies were not found, but the officers have impressions from them which exhibit the highest degree of perfection in thei manufacture. The coin cannot be detected either by sound or weight from the genuine The place were the counterfeiters carried on heir operations was built by a man named Sweet and his accomplices, and was so con structed that it afforded abundance of light and at the same time, the operators could not be seen or heard from without. One man star ted for California a month or two since, it is sup posed with a large quantity of the coun terfeit coin in his possession, intending, no doubt to speculate with it. The Government have dispatched an agent there to arrest him, but it is teared he will have disposed of a large amount of the coin before the officer arrives.

## Pineappies in Fiorida.

A writer in the Savannah Georgian says that one gentleman set out 46 slips of pine on the 20th of August, 1843, and they ripened to fruit July 10, 1845 ; he has now 3,500 plants, half which will bear next July. The apple does as well at St. Lucia, if not better, than in Cuba; the fruit is larger and better. Abou 18,000 pines can be produced to the acre.This fruit from the pine plants of South Flor da need not be plucked till it has quite ma tured, when it will come into market in better condition, and of finer flavor than any other. The average value of the pine then will be at least 5 cents, and ant acre will yield $\$ 800$ or $\$ 900$, while the produce of the or ange is about $\$ 750$ per acre.

## Medical Convention at Boston

In the American Medical Convention, in session at Boston, on Wednesday, last week, Dr. Nathan R. Smith, of Maryland, read a long report from the Committee on Surgery, most unequivocallydefending the use of chloroform The report says:
"It has been administered to millions of subjects, and we have but fifteen cases of authenticated deaths supervening from its use. Alarm, therefore, on the subject is needless Much more cause is there for alarm, much more reason to apprehend a fatal terminatio in taking an ordinary railroad journey, than in inhaling chloroform, at the hands of a judicious and careful practitioner.
" It is admissible to proceed with a surgical operation in dangerous cases, without the use of choloform, because safety and immuniy from pain are secured. It should not be used where there is a disease of the heart and in inhalation carre should be taken that atmospheric air be mixed with the chloroform Inhalation should stop the moment that in ensibility is attained. Professor Simpson has published his opinion that one hundred lives have been preserved by the use of chloroform where one has beenlost by it. He furthe says that the mortality, where chloroform is used, is much less than in similar cases where it is dispensed with."
The Committee on Obstetrics also reported decidediy in favor of the use of Chloroform, and the 'wonderful advantages' Obstetric practice has gained through the introduction of Anasthetical agents. Etherization has now been used in thousands of cases, and in no one instance has the slightestinjul'y resulted to the mother. It is added that anasthetics may not only be given in all cases of labor but that they may nor rightfully be withheld.

The funniest article yet, is a patent iron shirt with precusion collars. It never wear out, and by touching a spring, a new colla umps up, until a half-dozen are exhausted.A patent sheet-iron neckcloth accompanies it.

In the last number of the Medical Examiner , there is a description of a new poison which was discovered in 1847, by Sobrero, a Spanish Chemist Dr. W: F. Jackson, of Maine, has made a number of experiments with it, and the article in the Examiner is ta. ken from an address of the Doctor.
The poison is obtained by a process simiar to that for procuring gun cotton, with the exception that instead of cotton, the liquid called glycerine, the well known sweet principle of oils, is exposed to the reaction of a mixture of strong sulphuric and nitric acids, refrigerated. It is an oleaginous, honey-like ubstance, which sinks in water, but is soluble in alcohol; and it was the alcoholic tincture (the strength not mentioned) which Dr. ackson employed in his experiments.
The general properties of this substance, which as yethas no name, are those of a most powerful excitant or stimulant, the effects being exhibited by the violent action of the arteries and brain. One-third of a drop was always found sufficient to quicken the pulse, within sixty seconds, from sixty-five to nine-y-five and even one hundred ond twelve beats minute, causing intense headache, protruding eyes, and scintillating vision, with disturbed heart, \&c., symptoms which subsided in about half an hour. A larger dose produc. ed similar effects, only of a more violent character; the pulse being raised to one hundred and twenty-four beats and becoming hard and almost incompressible.
Three drops of this poison killed a cat in wo minutes.

The Benefit of a Strong Beaver.
Parson Brownlow, of the Jonesborough whig was attacked at night, while returning from church, and struck down by a club in the hands of John Ryland, whom he had publishd as a deserter in Mexico. The Rev. Editor after 15 days' confinement from his injuries, comes down on his assailant in a column of invective and characteristically says, in conlusion, "I owe my existence, under God, to strong beaver hat I had on at the time.
The parson's hat is equal to the famous one of George Buchanan. Perhaps he carries a sheet iron crown in it.

## Heavy Damages for Breach of Privilege in Partnership.

By the proceedings of the Superior Court ately held in this city, Judge Sandford Preiding, we see that Mr. A. G. Bagley, the Gold Pen Manufacturer, was a warded a verdict as plaintiff of $\$ 7,500$, for damages for a beach of the articles of co-partnership by $G$. and E. Smith, his former partners.

The Canat Locks at Lockport.
The combined ten Locks at Lockport, in this State, were completed last week, and they are justly considered as monuments of engineering and architectural skill. The Locks are in two tiers, 5 in each tier. Each lock has a lift of nearly 8 feet. There are 31,020 yards of masonry in the work and the cost of the whole has been about $\$ 600.000$.

## Propeller Sarah Sands.

The propeller Sarah Sands on her last voyage from Liverpool broke thepiston rod of her engine when she was five daym out. The ac. cident was occasioned by the screw getting oul of something in the water, and she had herefore to make the rest of the voyage by her sails, the screw at the same time acting as a drag to impede her progress.

## Gas Works Explosion.

The Gas Works at Rochester, N. Y., were completely destroyed by explosion on the 23d. The explosion was occasioned by one of the workmen goins into the building and lighting a match. The gas exploded on the instant the match was lighted. Two of the vorkmen belonging to the works, were seriously injured by the explosion, one very badly burned and the other had his leg broken.
Some oil cakes, from Holland, were exam ined recently at the London Custom House, which proved to be snuff. As there were ixty tons, and, as the duty or snuff is now six shillings sterling per pound, the government would have been defrauded to the large amount of $\boldsymbol{£} 40,000$.

