The Advantages of a Stove-pipe Hat.-Every reformer and most of our writers have something to say condemnatory of the stiff high crowned hat and advocate the soft felt hat as a substitute. While the Hon. Charles Sumner was recently inspecting a sleeping car on a Michigan railroad the train suddenly started. This threw him forward and he struck the ground with his hat, damaging that article considerably, and inflicting a slight injury on his head and face. Had Mr. Sumner worn a felt hat, his head instead of its covering would have sustaincd serious injury. The stove-pipe hat will undoubtedly have one distinguished advocate at least after this.
Texpile from Hop Vines.-Another discovery in the field of terile material, is that of a Belgian, who has shown that a second, most valuable, and heretofore useless product, can be furnished by the hop vine. After the hop blossoms have been gathered, the stems are steeped like hemp; when this operation has been completed the stalks are dried, beaten with a wooden beetle, and then the threads coms off easily. After carding and working in the ordinary way, a very strong cloth is oftained. The thickest stalks also yield the material for several kinds of rope.

Where the Money Goes.-A letter from a ladyin Paris, just received, says: " Never will so many Americans be in Paris at one moment again ;" and she added, " what a deal of noney they leave. I know some New York and Western ladies who have bought such quantities of laces. Every lady who comes to Paris must buy a real black lace shaw and silks. One lady bought twenty thousand dollars' worth gentleman, on his way to his Western home, takes fifteen gentleman, on his way to his W
trunks filled with laces, silks, etc."
The Spectrom Test.-So delicate is the spectrum test in determining the presence of certain metals that it is possible to recognize in this way the 1-60,000th part of a grain of potassa or baryta; the $1-1,000,000$ th of a grain of lime or strontia; the $1 \cdot 60,000,000$ th of a grain of lithic, and the $1-160,000,000$ th of a grain of soda. Dr. Letheby, a distinguishecd London chemist, has detected by this means the presence of blood in the stains of linen which had been laid a way for seventeen years.
How to Preserve Eggs.-In 1791, Wm. Jayne, of Shef field, Eugland, obtained a patent upon the following method which he averred would preserve eggs in a good and fresb condition for two years or more :-Keep the eggs in a compound made of 1 bushel quick lime, 32 oz. salt, 8 oz . cream of tartar, with cnough water to form a misture so that an egg will susim with its top just above the liquid. If any of our readers should test this simple method we should be glad to hear the result.

For Poliming Steel.-A German engineer states tha oxide of chromium is the best substance for polishing steel. The article can casily be prepared by heating bi-chromate of potash to redness. It is also used for painting on porcelain. One equivalent of chromic acid is reduced to oxide of chromium, and on well washing the residue of the ignition neutral chromate of potash is washed away and the oxide is left behind.

Colomisg Woolen Yarn.-An agricultural exchange as serts that yain, plain or mixed, can be colored a firm blue, even superior to that attained with indigo, by mixing common purslane (portulaca sicracea) macerated fine, and boiled for some hours with logwood chips, in the proportion of a half bushel of the former and quarter of a pound of the latter Two ounces of alum is used as a mordant for 6 very pound of wool.
The Age of Invenion.-It appears from the records of the Patent Ofice, that in 1864 the number of applications for patents was 6000 ; in the following year the number increased full fifty per cent ; in 1866, 15,000 applications were filed, and this year will probably increase the number to 25,000 . The number of cavcats filed last year was twenty-seven hundred and ihis ycar there will be upwards of four thousind

How to Remove Foul Air fiom Wells.-Ebenezer Robin son, of Philadelphia, Pa., suggested, in 1793, a very quick and sirople method of removing foul air from wells, cesspools, etc. Ile says he found the plan to succeed even where the air was so bad that neither flame nor life could be supported. by means oî a large bellows, inject fresh air.

The Mud Crop of Patis. Among the many economies of municipal administration in Paris is the sale of the yearly " mud crop." In 1823 this yielded only $\$ 15,000$. It now brings $\$ 120,000$, and when left for some time in rotting tanks is sold for manure, at the increased valuation of $\$ 600,000$. I we could but make the mud crop of our American cities equal ly profitable!
Multum in Parvo.-A very neat and convenient article in the ibape of a pen holder has been introduced to the public by the Riorse Eraser Company, of Philadelphia. It combines with a pen hoider of ordinary shape and size, a pencil sharpener, craser, aid burnisher. Add to it a penkni
be easily donc, and the article will be complete.

The New Planet recently discovered by Prof. Peters, of Hamilton College, N. Y., and at very nearly the same time by Prof. Tietjen, of Berlin, makes up the full number of these heaverly bodies now known to one hundred The name of
Undina has been given to the stranger.

A PARTY of capitalists recently visited Marsh,s Railroad, (an illustrated description of which was published in this paper before the enterprise was commenced), which is being built on the summit of Mount Washington, and a new company has been organized, fixing the capital at $\$ 200,000$. The Giant's Grove is being graded previous to erecting a large hotel on it, and the turnpike has been completed from that point to the railroad at the foot of Mount Washington. A point to the railroad at the foot of Mount Washington. A
little over a mile of the railroad has been constructed, and it little over a mile of the railroad has been construct
is expected the balance will be finished next year.

The Maritime International Exhibition, which is to be held next year at Havre, promises to be interesting, as it will certainly be in many circumstances novel. The idea of it was suggested by the circumstance that the marine productions and ebjects connected with them have necessarily been only partially represented in the Champ de Mars. There are to be three classes of subjects: navigation and life-saving apparatus; various articles of commerce and manufactures; and matters connected with fishing and pisiculture. The whole is to be under the very highest patronage.

The establishment of a National School of Mines is to be proposed in Congress at the coming session. It is estimated that $\$ 10,000,000$ per annum may be saved by the adoption of a better system in the working of our ores.

Wr regret to hear of the death of Prof. McGauley, connected with the Scientific Review, the organ of the Inventors' Institute, London. Professor McGauley resided for a time in Canada, and his friends there will regret to learn of his death.

IT is said that the only fruit which grows in every climate is the strawberry. It is the only fruit which somewhere on the earth is picked every day the year round.

## THE NOVEMBER METEORS,

According to programme, the expected meteoric display came off early in the morning of the 14th inst., and so far as numbers are concerned, Prof. Loomis, of Yale College, pronounced the exhibition more remarkable than the one our European neighbors were favored with one year ago, and but
little inferior to that seen in the United States in 1833. Rea soning from shower thirty-four years ago,-as we mentioned in our last issue,-astronomers confidently predicted this meteoric exhibition, and arrangements were made in most of our observatories for making systematic records of the shower. During the greater part of the night the task of mapping down on star charts the course and exact time of appearance of solitary meteors, was an easy one; but towards morning their appearance became so frequent that the observers ceased their efforts to time and map them, and only counted. The authority above quoted states that at New Haven the shower reached its greatest magnitude at 4.30 A . M., over five hundre 1 being then counted by one observer in an hour. And as one individual can watch but about one-sixth of the hemisphere, according to the usual method of computation, 3000, at least, were at this time visible in the whole heavens, and without doubt, twice that number actually came within the feld of vision, but were eclipsed by the superior light of the full moon. From all parts of the country, have come reports of the beauty and brilliancy of the shower. Even the inhabitants of our Pacific States wit nessed it, although, of course, it reached its full grandeur at an hour much earlier than with us. The display was not visible in England, or on the Continent.
The time when the shower attained its greatest brilliancy was, in this section, two hours later than that given by European observers of last year, and next year the display, if there be any, will not begin until ten o'clock A. M., Washington time, and will, therefore, be seen only in the Pacific Ocean.

## MANUFACTORING, MINING, AND RAILROAD ITEMS.

The Foxdale mine in the Isle of Man, is already one of the rienest lead an ilver mines in Great Britan; but its value has been very much increased by name discovery of an ore hitherto unknown to exist in that country. The name of
of silver.
A steamer has left Havre, having on board a largenumber of French loco motives, consigned to Russia. The report that the Creusot works had re
ceived an order for eighty locomotives-a report which has been freel ceived an order for eighty locomotives-a report which has been freels
published by our exchanges-itappears is a little premeture, the affair not as yet being definitely concluded. The pecunary assistance proposed to be af forded by the Russian government this yea

## White cbrome ore is found in Hanover, ne

White chrome ore is found in Hanover, near Gettysburg, Pa., which yield
about 55 per cent of iron. This ore is of the same kind as is now shippe from Havre de Grace, to Sheflleld Eng., to be used in the cutlery establish ment of that place.
The first sleigb-bell ever made in this country was manufactured at Cbat
ham, Connn., in 1780, and that town still retains a monopoly of this business. In the city of Dresden, albumenized paper is manufactured at the rate of upwards of 6,000 reams per annum, a quantity that would suffice to prin
more than $120,000,000$ cartes more than $120,000,000$ cartes $\alpha e$ visite. The whites of $2,000,000$ eggs are annually consumed in preparing this paper the yolks of which, are used by tanners tor
preparing the finer kinds of leather. After preparation, the paper is carefull assorted, and from ten to fifteen per cent is rejected for photographic purpos es but is used by Dresden printers for color printing.
The Inventors Manufacturing company established one year at Terryville Conn., operate the largest shears and scissors factory in the country,
turned out last year about 60,00 dozen, worth from $\$ 600,000$ to $\$ 500,000$. The "Lake Shore" railway lines between Buffalo, Cleveland and Toledo
are about to consolidate with the Michigan Southern on the one hand and are about to consolidate with the Michigan Southern on the one hand and
witl the New York Central on the other, thus placing the whole rote witl the New York Central on the other, thus placing the whole route under
one board of management. If effected, this combination will represent some $\$ 150,000,000$ of railroad capital.
At the head of Tlunder Bay, on Lake Superior, two veins of native silve have been discovered; one seventeen the other
one of them extending somethree or four miles.

Savoy. One quarry has a depth of on teet and a anrface of at least 24,00 square yards.

The exports of iron and steel of British manufacture from the United Kingdom has undergone a wonderful expansion of late yeare. In 1847 these ex.
ports amounted to 550,000 tuns; in ten years this incressed to $1,500,000$ tuns. ports amounted to 550,000 tuns; in ten years this incressed to $1,500,000$ tuns.
Comparing 1866 with 1844 there is an increase of no less than 206.38 per cent. Last year appears to have been the best twelve months on record in valuation of exportations.
The Spanish journals state that the small-arms manufactory at Placentia is
working night and day, executing an order given by the French Government working night and day, executing an order given by the French Government
for muskets of the new pattern. A French agent is on the spot, and has of fered a premium of 30 reals for each Chassepot delivered betore the time fered a pre
stipulated.
The failure of the great house of Decoqueville, whose iron founderies are to be sold by public auction on the $30 t \mathrm{t}$
Paris Exposition on French trade.

 Self-Setting game Trap.-Alfred Wilkin, McConnelsville, ohio.-This invention has for its object to furnish an improved trap which shall be dur-
able, cleanly, entirely free from the odor of a nimals, requiring little care to keep it in working order and capable of destroying large numbers of animals at one setting.
Bolt Fastening.- V. Lapham, El Paso, Ml.-This invention has for its ob ject to furnish an improved fastening for thill coupling bolts, clevis bolts, and other pivoting bolts which will hold the bolt securely in place a
which can at the same time be easily and quickly attached and detached. Which can at the same time be easily and quickly attached and detached.
Lasfr.-James Lee, New York city.-This invention has tor its object to furnish animproved lamp so constructed and arranged as to guard against
explosion by preventing the undue heating of the upper part of the oll reservoir and at the same time to guara against the lamp's being broken should it accidentally fall.
HAy Rafe and Tedder.- -J. M. Law. Portlandville, N. Y.-This invention
has for its object to furnsh an improved attachment for hay rakes by means of which hay may be sh conveniently and thoroughly.
Levkung Attachment for Stram Hartesters, etc.-Benjamin F Cook, Olema, Cal.-This invention relates to a new and improved leveling
attachment to be applied to steam harvesters and other agricultural imattachment to be applied to steam harvesters and other agricultural im-
plements which are mounted on wheels for the purpose ot keeping the main frame in a horizontal position in its transverse section when the machine is passing over inclined ground. The invention consists in interposing be-
tween the backaxle of themachineand the bolster above it a wheel having its rim beveled or made inclined and connected with a windlhss or capstan in such a mannerthat the wheel may be turned with facility and the main the wheels onwhich the machine is rounted are passing over inclined surfaces.
Hoisting Apparatus.-A. F. Crosman, Steamer Ossipee, North Pacific
Squaaron, U. S.Navy.-This invention is desigued to faciiltate the hoising of small boats at the sides of slips and other vessels. The invention consists in a novel arrangement of the davit tackles whereby the tackle of both
davits are operated and the boat hoisted or lowered by the manipulation or a single rope, The invention further consists in a novel means for releasing simultaneously both ends of the boat from the hooks of the tackle blocks when the boat is lowered so as to reach the water and thereby prevent the
capsizing of the boat a contingency of not unfrequent occurrence when the capsizing of the
water is rough.
Drying attacharent for Paper-rduing Machines.-R. J. Groshans,
Buffalo, n. Y.-This invention consists in applying to paper-ruling maching Buffalo, N. Y.-This invention consists in applying to paper--uling machines
arevolving fan in such a manner that the ink on the freshly ruled arevolving fan in such a manner that the ink on the freshly ruled paper will
be rapidly dried and the paper under the iufluence of the blast generated by the revoling fan bemade to drop evenly into the box or receptacle prepared to receive it.
Composiror's Copy Holder.-P.A. La France, Elmira, N. Y.-This invention relates to a new device for holding the manuscripts on prunters'
type cases and consists in the arrangement and construction of a platforn which rests on suitable supports providei for that purpose on the type case and which can be easily moved la
Machine for Upserting, Cotting and Punohing Iron.-J.J. Rose
Eluwood, ml.-Thas invention has for its object to improve the construction of the machine patented by the same invention $\Lambda u a .1,18 \grave{j}$, and numbered
ond 49,158.
Belt Fastrening--David Wigger, New York city.-This invention relates to a new belt fastener which is so arranged as to be easily opened, and
which, when closed, can be securely locked, and which is ofgreat strength which, when clo
and durability.
Fisshoor.-A. I. Lenhart, New Brunswick, N. J.-This invention relates to a new and improved fish hook of that class which are provided with a
spring, a catch or fastening, and one or more supplemental hooks, which spring, a catch or fastening, and one or more supplemental hooks, which,
when the fish seizes the bait, are released and spring so as to penetrate the fish and secure it. The invention consists in a novel construction of the de vice, or the arrangement of the parts, whereby the capture of the fish, when the latter nibbles or seizes the bait, is rendered almost certain,
Bleachivg Paper Stock.-S. T. Merrill, Beloi, Wis.- This invention has
for its object the bleaching of paper stock in a more economical manner for its object the bleaching of paper stock in a more economical manner
than hitherto, and consiots in subjecting the slock to the action of cllorine gas while the former is undergoing the process of commmution in what is gas while the former is undergoing the process of communution na
known as the "rag engine," or the stock agitated ina close vessel.
Railway Travellng Hook.-Wm. R. Oatles, Rochester, N. Y.-This in
vention relates to a new and improved hoois by which travelers in rallway vent may suspend any hand luggage from the liat racks over the seats. Thc
cars invention consists in connecting two hooks toxether by a swivel joint, one
hoon being of sufflicient dimensions to catch over arail of the rac's, and the other hook of such size that a strap, string, or cord may be readily suspended or fitted upon it,
Combined Chmney and Ventilator.-A. S. Whittemore, Willimantic, Conn.-This invention consists in combining a chimney or fine with a ven
tilator in sueh a manner that the compartments of a building may be thor oughly ventilated and the chimney or fiue at the same time rendered per fectly fire proot.
Paprr Roling Maceine.-Edmund A. Warren, Brooklyn, N. Y.-This in
vention relates to a new and improved machine for ruling paper, and it con ention relates to a new and improved machine for ruling paper, and it con sheets of paper to be ruled, and also provided with adjustable cams, the above parts being used in connection with a pen beam, and all constructed ad arranged so as to operate in a perfect manner.
Mower and Reaper.-A. W. Tucker, Waxahachie, Texas.-This inventio relates to a new mower and reaper, which is made adjustable so th at the
cutting apparatus can be set to a higher or lower level, and so that it can be thrown out of gear at pleasure; an endlessapron is arranged directly in rea of the cutting apparatus, to receive the cut straw or grass, which can be dis
charged from the aproneither in continuous succession or in swaths at sui able intervals.
Punching Machine.-Morris Seiferth, Morristown, N.J.-This invention relates to a new punching machine, for perforating plates or for stamping or
notching the same, and consists in the euse of a a automatic cleaner, by whic the plate, after a hole or depression has been punched, is lifted off the lowe stationary punch, so that it can be easily adjusted upon the same, for the punching of the ne
the driving shaft.
Hotse Ventilator.-Robert Boyd, Evansville, Ind.-This invention re and public buildings, whereby the fresh air from the outside may be convey and public buildings, whereby the fresh air from the out
ed inside, and the vitiated or foul air escape therefrom.

