exposed to the red rays, and nine times greater than that decomposed in the blue light.

When plants are put into a dark place their colored parts become blanched, the green coloring matter is oxygenated and decomposed, the tissues become weak and distended by the quantity of matter which has been mechanically absorbed and which they are not able to give off by exhalation, and the plants actually die of starvation whilst surrounded by abundance of suitable nutriment ; the stimulus of light, by which alone that nutriment could be appropriated, being wanting.
The green coloring matter of plants is called chlorophylle, and gardeners know that it cannot be formed wichout light. They take advantage of this in modifying the color of vegetables for the table by planting them in situations where the light is very limited, and the result is a change of their color and taste. By covering the lower portions of celery and some other plants, they are rendered tender and white; this is aue to the exclusion of light, which is the great developing agent of the woody matter. Potatoes planted near the surface of the ground are always stringy and harsh; those who advocate very shallow planting do not know what they are talking about. The calorific rays which are absorbed by plants are retained in them, ready to be given out in the form of heat when burned as fuel.

## INTERESTING PROCEEDINGS IN CONGRESS.

 the new patent bill.We notice, by recent proceedings in the Senate, that, on motion of Senator Bigler, chairman of the Senate Committee on Patents, the patent bill published on page 146 of the present volume of the Scientific American was made the special order for Wednesday of this week. There is, therefore, at the time of our going to press, a prospect that this important subject will be no longer permitted to sleep in the dusty pigeon-holes of the com mittee room. We hope, also, that when the subject is discussed, the Senators will show a proper appreciation of the rights and interests of a useful class of our citizens, whose claims upon the consideration of Congras have been heartily ignored for nearly a quarter of a century The bill, as re-printed by the committee, is crude and ill-shaped in some of its sections. At the time we published the bill, we endeavored to point out its defects ; and we have no doubt that when it is discussed, section after section, the objectionable festures will be lopped off.

## legiblation for hogs.

A citizen of Keqtucky-William Corbett-has applied to Congress for compensation for discovering a cure for hog cholera. Now, if Dr. Corbett has really made a useful discovery of this kind, Congress ought to buy the secret and give it to the world. This is one of the few cases where the patent laws cannot protect the discoverer from infringement ; and unless he can get some compensation to reveal the secret, our hogs must either rely upon the personal skill of Dr. Corbett or give up the ghost. The utter impracticability of relying upon him in such an emergency is apparent ; therefore, unloss our legislative fathers have no fellow-feeling for 8 wine, they will hurry up an appropriation in their behalf.

## COLT'S RETOLVER.

Samuel Colt, the patentee of the famous six-shooter, has just made application (through Mr. Loomis, a representative in Congress from Connecticut) for a renewal of his patent, known as "Colt's Rotating Chamber Firearms." Colt has had pretty hard luck heretofore in atcempting to get Congress to renew his patent; but he evidently thinks that, by steady perseverance, he may at some time accomplish his object. We recommend to Col. Colt the perasal of the first verse of the 11 th chapter of Hebrews.

## WEEKLY SUMMCARY OF INVENTIOYTS.

The following inventions are among the most useful improvements patented this week. For the claims to these inventions the reader is referred to the official list on another page:-
piled fabrics.
This inventions relates to the manufacture of piled fabrics suitable for carpets or for other purposes by the introduction into a previously woven foundation of canvas or other fabric, of threads which after being passed through the said foundation in the form of rows of loops at regular or suitable intervals, are secured by a continuous fill-
ing thread which passes through the several rows of loops in succession. In this way a pile magbe produced on either or both sides of the fonndation; the loops forming it on one side, and the portion of the thread between the loops forming it on the other side, and by cutting the thread between the loops a cut on velvet pile may be produced on one side. The invention consists in in the employment in this manufacture, of a series of needles arranged side by side at suitable distances apart for passing the threads through the foundation, in the form of loops, in rows extending the whole width of the fabric, and a long needle operating transversely to the first mentioned or loop needles, for carrying the filling thread through the loops. The invention also consists in a certain contrivance for holding the filling thread during the retreat of the needle which passes it through the loops, for the parpose of preventing the said thread being withdrawn wholly or partly from the loops by the retreat of its needle; also in a certain contrivance for feeding the foundation to the needles for the reception of the pile thread, and certain means for operating a set of rods or wires employed for the purpose of forming the pile. This machine somewhat resembles a sewing machine with a large number of needles ranged side by side and operating together: The credit of this contrivance is due to Charles Miller, an ingenious mechanic of this city. The patent is assigned to George Ricardo, 499 Third-avenue. mandfacture of resin.
H. Napier, of Brooklyn, N. Y., is the inventor of a process of obtainigg oil of turpentine and fine white resin by a continuous operation. The crude turpentine is put into a still and heated to a temperature of about $245^{\circ}$ Fah., and steam at the same temperature, that is to say, at a pressure of about 10 pounds, admitted among it in such manner as to penetrate the whole of the mass. The steam carries over the oil of turpentine into the condensing worm and separation is effected by condensing in the usual way. When the oil of turpentine has all come over, the temperatnve of the still is raised to from $250^{\circ}$ to $600^{\circ}$ Fah., the steam being kept blowing through the mass at the same pressure above stated, the residual portion of the crude turpentine then rises in vapor, and passes over with the steam to a receiver which is kept as cool as possible by water, and in which the vapor is condensed and found to consist of resin of the purest quality ob tainable, but slightly opaque from the presence of a little moisture which may be easily removed by remelting the mass and exposing it to a temperature of $213^{\circ}$ Fah. car beat.
This invention relates to an improvement in that class of car seats in which adjustable backs are employed for converting, when necessary, the seats into lounges or couches. The invention consists in having two backs to each seat and connected by gearing, and having the upholstery connected with certain automatic mechanism, all being 80 arranged that the backs may be more orless inclined and consequently increased in hight as desired, one being used as a support to the lower extremities of the occupants, and either used as a back as occasion may equire ; the upholstery in consequence of its connection with the mechanism above referred to, being allowed to conform automatically to the adjustment of the backs. This device has been patented to Samuel McGregor, of Logansport, Ind.

## steam trap.

This invention relates to that kind of steam trap in which the operation of the water escape valve is con trolled by a flexible diaphragm which is acted upon by the expansion and contraction of the liquid in a vessel heated by the water or steam in the escape pipe. The improvement consists in a novel arragement of the valve the diaphragm and the chamber, relatively to each other and to the escape pipe, whereby the valve is rendered more sensitive, and a freer escape for the water and sediment is provided than in other steam traps operating on the aame principle. The inventor of this improvement is Levi Fergason, of Lowell, Mass. RETOLVER.
In this revolver the caps or primers are placed in the hollow stem in which the many-chambered cylinder revolves. The cocking of the pistol causes one cap to discharge from the stem, and a slide to take the same and place it in line with a capnipple. The pulling of the trisger or falling of the hammer or cock causes the bulk of primers to pass into the stem besond the infiuence of the explosion. This is certainly one of the simplest and
most complete self-priming fire-arms ever patented. The credit of this invention is due to W. H. Bell, of Washington, D. C. The inventor has taken steps to apply for foreigu patents. This patent was issued March 20, 1860.

## QUARTZ-CRUSHER.

This invention consists in a concave trough suspended on an axis so as to swing back and forth. A grooved gravitating roller rests on the bottom of the concave. At each end of the concave a screw is arranged. The quartz are placed on the bottom of the trough and as the trough swings back and forth, the quartz are crushea between the grooved weighted rollers, and the toothed grooved bottom of the concave. Scoville and Fraser, of Chicago, Ill., are the patentees. This patent was issued March 20, 1860.

## FOREIGN NEWS AND MAREETS.

Extraordinary Petition.-The following singular petition was lately presented to the Briish House of Com-mons:-"We the undersigned Poor Men of the parish of Winterslow, county of Wilts, do humbly solicit the attention of your honble. Honse to our humble petition. Being poor labouring men, mostly with families and aged, and living in a woody district of the country, wher there is a great may English trufles grow, which we cannot find without dogs, we do therefore keep and use a small pudle sort of dog, wholey and soley for that and no other purpose; and as it is in the winter seasan of the year when we gather them, when labourers is generally on the excess in our neighbourhood, we ofton are enabled by the aforesaid dogs to provide a subsistence for our families, otherwise we should often be a burden to the parish; and as it hath been carried on by our ancestors for generations past without paying any tax for the dogs; but as the tax is now levied upon us-viz. twelve shillings per year, and as we have to keep our dogs six months when we have no use for them, it presses so heavy upon us that without redress we shall in most cases be obliged to make a sacrifice of our dogs, and thereby become a burden to the parish, and in some cases paupers on the union; and, as it did please your honble. House in its wisdom to exempt dogs used purposely for cattle for the maintenance of shepherds, \&c., from paying of tax, we do humbly beg that your honble. House will take our case into your consideration, and exempt us from paying tax on our truffle dogs, that we may be enabled to follow our avocation for ours and our families subsistence."
The truffle is a subterranean fungas, of a roundish, oblong form, and a blackish brown color, and it is much used in cooking. It is hunted buth by dogs and pigs, trained for that purpose, in soil beneath trees, especially oaks and beeches, and is found in but few places. It has never get been cultivated with success, although many attempts have been made for this purpose. French truffles are imported to some extent into the United States. They charge a most astounding price for a dish of them in French restaurants.
A Craious Surgical Case.-A rare instance of a perfect recovery from a desperate wound was recently brought under the notiee of the Academy of Medicine (Paris), by Mr. Larrey, who at the same time presented to that body an American, M. Preterre, to whose mechanical skill the attainment of the full result was due. At the battle of Magenta, a sergeant of the 85th of the line was struck by a musket ball, whieh, after completely shattering the lower jaw, came out behind from under the skull, close to the cervical vertebræ, which had they been injured would have rendered the case hopeless. It is hardly credible that 80 extensive an injury, inflicted in such an important region of the human frame, could have admitted of cure; and it reflects high credit on the army surgeons who attended him. To restore the power of mastication by mechanical means, M. Preterre was called in, and succeeded in his task by an ingenious contrivance, which has been greatly admired by the firat surgeons in Paris.
Indian River Navigation.-One of a number of vessels building by Messrs. John Laird \& Sons, at Birkenhead, (England) was lately tried on the Mersey, and excited a great deal of interest and attention from its novel appearance. The hull is 260 feet long and 36 feet beam, and is constructed of steel plates, the vessel in general appesrance much resembling the American river steamers. She drew about 16 inches of water at the bow, and
her hull appeared only about 3 feet above the water. The whole weight of the vessel and machinery is supported by arched girders The engines are 200 horse power. The steering apparatus is of a novel character, the stern being divided into two parts, resenbling the ends of two canoes lashed together, from which depend two boards or rudders like leeboards in shape, which are taised alternately as the course is required to be changed from starboard to port, or rice versa.
Stean Plowing.-As Spring approaches, great prominence is given to steam culture in England, and a number of lectures have recently been delivered in various places, in which its economy over plowing by horsepower has been pointed out pretty clearly; but it is admitted that it will not pay for a farmer who has a small farm and a limited amount of capital. It requires a farm of about 300 acres in extent to maintain a steam plow in England, therefore, it can only be employed in America, with profit, on farms of about 1,000 acres, such as some of those on the prairies, because horse-power is much cheaper in the United States than in England.
$M$ etals.-English rails are steady at $£ 5$ 12s. 6d. per tun ; Scotch pig iron is selling at $£ 2$ 18s. 6d; spelter is selling at $£ 21$; and Banca tin at $£ 140$ per tun. As $£ 1$ is valued at $\$ 4.85$, the price of pig iron in Scotland is only $\$ 13.08$ per tun. The great strike which had taken place among the coal-miners in Glaggow has terminated; the operatives have returned to work at the old wages, but obtained come concessions regarding the hours of labor. The steel trade of Sheffield is very brisk at present, and there has been a great increase of raw unmanufactured steel, but a decrease in the manufacture of steel articles. A great deal of steel is imported into the United States, and manufactured into articles which formerly were manufactured exclusively at Sheffield. All the cutlery now made at Waterbury, Conn., and other places in America, has cut into the Sheffield trade.

## INDUSTRY-MANUFACTURES-COMMERCE.

Indiana Coal.-At Cannelton, Ind., there is a tunnel cut 1,600 feet long from the mines, and a double railroad laid in it down to the river. The vein of coal worked is $4 \frac{1}{2}$ feet thick; 110 miners are emploged, and 8,000 bushels of coal are raised per das. The railroad is on an incline from the mines to the river, and is operated entirely by gravitation. The loaded cars, going down on one track, carry up the empty cars by an endless rope on the second track. The coals drop through the bottom of the cars into boats below in the river, no expense is therefure incurred either for haulage, or loading the boats. The price of coal is about seven cents per bushel. It is used on Ohio and Mississippi steamboats.
Penneylvania Coal.-On page 201, present volume of the Scientific American, we stated that many of oui coal mines were insufficiently ventilated. This state ment was painfully verified by an explosion, caused by "fire damp," which took place near Scranton, Pa., on the 25 th ult. Several persons in the mine were severely injured, but none fatally, we believe. Great attention should be paid to the ventilation of our coal mines and the condition of the hardy miners who labor at such an unhealthy and dangerous business.

Cbal in Chicago. -The large bituminous coal fields of the West are being rapidly developed. Last year 131,204 tuns were received in Chicago, and the bes qualities of Pennsylvania and Ohio bituminous ranged in price, in that city, only from $£ 3.50$ to $\$ 4.00$ per tun. The Illinois coal sold for $\$ 2.25$ and $£ 2.75$ per tan. The lower veins of this field are much superior in quality to those of the upper serics of veins. In a few years hence, thercfore, the people of the West will be getting much better coal than they do at present.
Steam on Street Ruilroads.-Septimus Norris, the wellknown engineer of Philadelphia, says he will guarantee to propel each car on the passenger railroads of that city, loaded with 36 passengers, over any road and up any grade, at a cost of 88 cents a day for coal. The saving in the operation of these roads would be very large by asing steam. The advantages gained by the substitution of steam, he says, are as follows:-1st. The steam car can ascend any grade without assistance. 2d. The steam car can be be stopped mnch quicker, and propelled at a greater speed. 3d. The saving in the use of steam for 315 cars would be in a year, $\$ 189,675$. 4th. The space occupied in the street would be lessened for each ear the length of the horses.

The Maple Sugar Crop.-The Grand Haven (Mich.) News says:-"Large preparations are being made for a successful campaign in the sugar woods and, should the season prove a favorable one, an unusual amount of this table luxury will be manufactured within the limits of our country. Michigan is-size considered-one of the greatest States in the Union in amount of maple sugar produced in her forests, exceeding in the aggregate $2,500,000$ pounds annually; value at 8 cents per pound, $\$ 200,000$.

Adulteration of $\boldsymbol{A r t i c l e s}$.-Our merchants must keep a sharp look-out for the articles which they send to Canada. A obemist in Quebec has receutly published the result of a chemical analysis of some of the articles of consump tion sent to that city by New Yorkers. He found in pickles, which bear the label "no sulphate of copper," not this salt, but sulphate of iron instead. In sherry wine he discovered an immense quantity of salt. In the green tea he found copperas. The gin was nothing but whiskey and essence of juniper. In snuff he found peroxyd of iron and other chemicals, to the extent of one fifth of its bulk. This will soon ruin our character, and trade, also, if persisted in. "Honesty is the best policy" in all things.

## NEW:SYORE MAREETS.

BERSWAE-American yellow, 36c. a 36\%c. per lb.
Bread.-Slup, 33/c.a 43/4c. per lb.
Candles.-Sperm,city, 38c. a 40c. per 1b.; sperm, patent, 48 c . a50e. wax, paramne, 50c.; adamantine, city, 17c. a 19c.; stearic, 27c. a 28 c . Coal_-Authracite, $\$ 4.75$ a $\$ 0$; Liverpool orrel, par ehaldron, $\$ 9$ cannel, \$11.
Corpera-Keáned ingots, 23\%c. per lb.; sheathing, 27c. ; yellow me tal, 20c.
Cordace_Manilla, American made, 8c, a8z/c. per lb.; Rope, Rusaia hemp, 12c.
Cotron.-Ordinars, 6 c. a 8 \%c.; good ordinary, 94 c. a $9 \% \mathrm{c}$.; mid diling. $11 \% \mathrm{c}$. a $11 \% \mathrm{cc}$. good middling, $11 \% \mathrm{cc}$ a $123 / \mathrm{c}$.; middling fair 1234c. a 13 \%c.
Domesinc Goods.-Shirtings, brown, 30-inch, per yard, Bc. a 7xc. shirtings, bleacbed, 26 a 32 -inch, per yard, 6 c . a 8 c. ; shirtings, bleach ed, 30 a 34 -inch, per yard, 7 c . a $8 \%$ c.; bleetinge, brown, 36 a 37 -inch, per yard, $5 \% \mathrm{cc}$ a $8 ; 4 \mathrm{c}$.; вheetinge, bleached, 36 -inch, per fard, $7 \% \mathrm{c}$. 15c.; calleoes, вc. a 11 c .; drillings, bleached, 30 -inch, per rard, $8 \searrow \mathrm{c}$. a c.; clothe, all wool, $\$ 1.50$ a $\$ 2.50$; cloths, cotton warp, 62 c . a $\$ 1.37$ casaineres, 75c. a $\$ 1.50$; satlnets, 30c. a 60 c .; flamels, 15 c . a 30 c . Danton flannels, brown, 8\%c. a 1 sc.; Kentucky jeance 8 cc a 18 c . Dresticure\$32; Fustic, Maracaibo, $\$ 19$ a $\$ 20$; Locon $\$ 20$, Fusic, rood Ta Honduras $\$ 15$ a $\$ 17$; Logwood, Jamaica, $\$ 13.50$ a $\$ 14$; Lima wood $\$ 50$ a $\$ \$ 5$; Sapan wood $\$ 45 \overline{\text {. }}$; Cochineal, per lb, $\$ 1.08$ : Bichromate of potash, 20c. a 21 c . per 1 lb .; Cream of tartar, 38c. per 1b.; Madder 3c, per lb.; Lac dye, 10 c a 50 c , per lb . Blue vitriol, 93 c , per lb , Catechu, 6\% c. a 7\%c. per lb.; Copperac, $13 / a c$ c. per lb.
Flove - State, superfine brands, $\$ \overline{1} .15$ a $\$ 5.20$; State. extra brand $\$ 5.25$ a $\$ 5.40$; Michigen fancy bende, $\$ 3.25$ a $\$ 555$; Ohio, conamon branda, $\$ 3.35$ a $\$ 5.45$ : Ohio, fancy brande, $\$ 5.60$ a $\$ 5.70$; Ohio, falr extra, $\$ 5.90$ a $\$ 8.10$; Ohio, good and choice extra brands, $\$ 6.25$ a $\$ 7$; Mlchigan, Indiana, Wisconsln, ©c., $\$ 5.90$ a $\$ 5.65$; Genesee fancy brands, $\$ 5.60$ a $\$ 3.70$; Genesee, extra brands, $\$ 5.78$ a $\$ 7.56$ Miesoutur, $\$ 3.75$ a $\$ 7.75$; Canada, $\$ 5.35$ a $\$ 7$; Vlrginia, $\$ 6.50$ a $\$ 7.40$ Rye flour, superfine, $\$ 3.90$ a $\$ 1.44$; corn meal, $\$ 4.10$.
Guxar -Per lb. Gamboge, 25c.; Arabic, picked, 12c. a 2fc, sorts, 8 c . 9\% c.; Benzoin, 51\%zc.; Copal, Cowrie, 4\%c. a $5 \%$ c.; Damar, 9\%c. 14c.; Myrrh, East India, 10c, a 25c.; Myrrh, Turkey, 25c. a 32 c .; Sene gal, 6c. a 10c.; Tragacanth, sorte, 17c. a $97 x$ c.; Tragacanch, whit Heksp. 75 c a 80 c .; Shellac, 50c. a 55 c .
Hexp.-American undressed, $\$ 120$ a $\$ 150$; dressed, from $\$ 160$ a 2000. Jute, $\$ 100$. Italian, $\$ 375$. Russian clean, $\$ 190$ a $\$ 200$ per tua Manilla, 6\%c. per lb. Sisal, 57 fe.
India-robuer-Para, fine, a 60 c
per lb. ; East India, 52c.
Invioo.-Bengal, $\$ 1$ a $\$ 1.55$ per lb.; Madras, 70c. a 95 c .; Manilla 6a c. a $\$ 1.10$; Guatemala, $\$ 1$ a $\$ 1.25$
Taov.-PIg, Scotch, per tun, \$5, Jar, Swedes, ordinars size s5a $\$ 36$; bar, English, commou, $\$ 42.50$ a $\$ 4350$; refined, $\$ 33 . \mathrm{a}$ a $\$ 54$
 Ivory-Per lb., $\$ 1.25$ a $\$ 1.30$.
Latis.-Eastern, per M., $\$ 1.50$ a $\$ 1.75$
Lesd.-Galena, $\$ 5.87$ per 100 lbs.; German and English rcaned $\$ 5.62$ a $\$ 5.67$; bar, sheet and pipe, $6 \times \mathrm{c}$. a 7 c . per lb .
Leapuer-Oak slaughter, light, 29c. a 31c. per lb.; Oak, medium 30c. a 32c. ; Oak, heavy, 28c. a 31c.; Oac, Ohio 29c. a 30c.; Hemlock heavy, Cali fornia, 19c. a 20c.; Herr sck, buff, 15c. a 18c; Cordo16 c . a 17 c . per foot; light Sheep, morocco finish, $\$ 7.50$ a $\$ \mathrm{~s} .50$ per dozen ; Calf-skins, oak, 5je. a 60c. per lb.; Hemlock, 56c. a 00 c .; Belt ing, oak, 32c. a 34c.; Hemlock, 28c.a 31c.
Lime.-Rockland, 90c. pel bbl.
Sumber-Timber, white pine, per M feat, $\$ 17.75$; yellow plne $\$ 35$ a $\$ 40$, oab, $\$ 35$ a $\$ 30$; Eastern pine and spruce, $\$ 16.25$ a $\$ 17.50$ White Pine, clear, $\$ 35$ a $\$ 40$; White Pine, relect, $\$ 35$ a $\$ 30$ White Pine, bor, $\$ 16 \AA \$ 18$; White Pine, flooring, $1 \neq 1$ inch dressed, tongued and grooved, $\$ 24.50$ a $\$ 28$; Yellow Pine, fiooring l 4 inch, dressed, tongued and grooved, $\$ 39$ n $\$ 35$; Black Walnut, good, $\$ 45$; Black Walnut, 2 d quality, $\$ 30$; Cherry, good, $\$ 45$; White Wood, chair plank, $\$ 12$; White Wood, 1 inch, $\$ 33$ a $\$ 25$ pruce roongg, ix inch, fresen, tongued and grooved, each, 21 c . 2.c; Spruce Boarda, 14 c . alfc.; Hemlock Boards, $12 ษ \mathrm{c}$. a 13 c .; Hem Shingles, Staves, white oak, pipe, heary, $\$ 75$ a $\$ 80$, Staves, white oak, pipe
$\$ 30$ a $\$ 35$; Staves, do. bbl. culls, $\$ 20$; Mahogany-8t.Domingo, fin crotches, per foot, 35 c . a 45 c .; St. Domingo, ordin
Hoduras, fine, 12\%c. a 15 c .; Mexican, 13 c , a 1 c . Honduras, fine, 12\%c. a 16c.; Mexican, 13c. a 15 c
Nairs.-Cut, 3\% c. a 33/c. per lb.; American clinch, 4\%/8c. a $5 \% \mathrm{c}$ c. merican horse-shoe, 14\%e. a 20c
Oca-Cive, Marscilles, baskete and boxes, $\$ 3.50$ a $\$ 3.55$; Ollve is caeke, per gallon, \$1.20 a $\$ 1.30$; Palm, per pound, $8 \% \mathrm{c}$.; Linseed, city made, 57 c . a 58 c . per gallon; linseed, English, 59 c .;
whale, fair to prime, 4 Gc . a 50 c .; whale, bleached 59 c . a $6 u \mathrm{c}$.; siverm, crude, $\$ 1.40$ a $\$ 1.43$; sperm, unbleached winter, $\$ 1.47$; lard oll, No. J, winter, 92c. a $\$ 1$; red oil, city distllled, 57c.: Wadsworth' refined rosin, 25 c . a 35 c .; boiled oil for painting, 25 c , a 35 c . tan ner's improved and extra, 2jc. a 30 c .; camphene, 49c.; fluid, 47c; Paints...Litharge, American, 7c. per lb.; lead, red, American, 7 ead, white, American. pure, in oil, $\delta \mathrm{c}$; ; lead, white, American, pure dry, 7ぬc.; zinc, white, American, drs, No. 1, 5c.; zinc, white, French dry, 74 f .: zinc, white, French, in oil, $9 \% \mathrm{c}$.; oclure, ground in oll, 4 c 6c.; Spanish brown, ground in oil, 4c.; Payis white, American, 76c 90c. per 100 dbs .; vermillion, Chinese, $\$ 1$ a $\$ 1.10$; Venetian red N. C., $\$ 1.75$ a $\$ 2$ per cut.; chalk, $\$ 3.75$ per tun.

Plabtri-or-Paris.-Blue Nova Scotia, $\$ 2.75$ per tnn; white, $\$ 3.50$; caleined, $\$ 1.20$ per bbl.
Resin.-Turpentine, eof, per 280 lbo., $\$ 3.50$ a $\$ 3.55$; common 310 lbs, , $\$ 1.65$ a $\$ 1.67$; strained and $N o .2, \$ 1.70$ a $\$ 8.00$; No. er 280 lbs., $\$ 2 \mathrm{a} \$ 3$; white, $\$ 3$ a $\$ 4$; pNe, $\$ 4.50$ a $\$ 6$.
Saltpeter-Refined, 12c. a 14 c . per lb.
Sonp.-Brown, per pound, 5c. a \&c.; Cabtile, 9c. a 9\%e.; Olive, 7 e. 736c.
Sreliter plates, 5c. a 5\%/s. per lb.
Stezc.-English cast, 14c. a 16c. per 1b.; German, 7c. a 10c.; Am eriean spring, 5 c , a $5 \% \mathrm{cc}$. American blister, 4 \%c. a 53 fc .
Sogar-New Orleans, bc. a 8xc. per lb.; Porto Rico, byc. a 816. Havana, brown and yellow, 7c. a 8\% c.; Havana, white, 8\% c. a 9\%a Brazil, white, 8c. a 8\%/4c.; Brazil, brown, 6\%cc. a 7c.; Stuart's grenu lated, $9 \% / \mathrm{c}$.
Stresc.-Sicily, $\$ 60$ a $\$ 80$ per tun.
Tallow.-Amerlcan prime, $103 / \mathrm{cc}$ a $10 \% \mathrm{c}$. per ith
Tin.-Banca, 31c; Straite, 30 a .; plates, $\$ 6.50 \mathrm{n} \$ 9.25$, perbox. Wool-American, Saxony fleecc, per 1b, 54 c . a 58 c .; American fol Shood merino, 42c. a 47c.: extra, pullcd, 42c. a 47c., Euperfine, pulled mon, unwashed, 10e. a 18c.; Nexican, unwashed, IIc. a 14c.
mon, unwashed, 10e. a 18c.; Nexic
Zrvo.-Sheets, 7c. a $7 \Varangle$ c. per lb.
The foregoing rates indicate the state of the New York marketa up to Marcb 29th.

These tables are renewed for the past month and show the changes which have occurred in prices since we published the last table (on page 138), for February. There has been very little fluctuation in prices, indeed, the small number and very limited range of changes and prices will afford surprise to many persons who suppose there is a very irregular vibration of the price-pendulum day by day.
City-made adamantine candles have fallen one cent per lb; foreign coals $\$ 2$ per tun ; refined copper, is onehaff a cent lower per lb; ordinary qualities of cotton one cent per lb. Sugar has lowered about one-half cent per pound, on the average; and fine wool two cents per lb. Camwood has fallen $\$ 5$ per tun.
It is a better sign of the times to witness a rise rather than a fall of prices. The changes in the advance of prices are greater and more numerous than the declension changes. Linseed oil has advanced about two cents per gallon. Paints are very conservative-no change. Lime has gone up twenty cents per barrel, and yellow pine and spruce have advanced $\$ 2$ and $\$ 5$ per 1,000 feet-a good sign of activity in building. The metals have been sta tionary: and leather unaltered.

Grease an Antidote for Arsenic.-M. Blondlot, of Nancy (France), has called attention to a very curious toxicological fact, namely, that greasy matters have the power of diminishing considerably the solubility of arsenious acid, either in pure water or in acid and alkaline liquors. Thus, in contact with grease, the poisonous properties of arsenious acid are very much decreased, and at the same time, it becomes more difficult to render its presence evident by chemical reactions. A very ulight quantity of greasy matter, according to M. Blondlot's experiments, reduces the solubility of arsenious acid to 1-15th or 1-20th of what it is when in a pure state. This explains why arsenic, taken in the form of powder, re mains sometimes for a considerable interval in the body without producing injury; it explains also how it is that, in cases of poisoning by arsenic, this substance has not been readily detected in such portions of the body or the aliments which contain much grease. It seems to teach us, also, that cream, for instance, is an excellent antidote for arsenious acid. Morgagni tells us, in his writings, that, in his time, the Italian boatmen used to astonish the bystanders by swallowing, without hurt, large pinches of arsenious acid, having taken the precaution beforehand of drinking a quantity of milk or eating some greasy mattor. As soon as the public had retired they got rid of the poison by vomiting.-London Photoaraphic News.

