where h e graduated in 1796. He studied law, but was induced to abandon his profession and accept the new chair of chemistry at Yale in 1804. In 1818 be founded the American Journal of Sclence and Arts, and was its sole editor for twenty years.
The subject which most warmly enlisted Professor Silliman's sympathies, and to the elucidation of which he most zealously devoted his faculties, was the harmony of science and religion. In a course of lectures which the writer of this heard him deliver in 1834, he argued with almost passionate zeal that the word "day," as used in the beginning of Genesis, does nut mean twenty-four hours, but an indefinite period o time; contending that this is conclusively shown in the seutence at the close of the account, "These are the gencra'ions of the heavens and of the earth when they were created, in the day that the Lord God made the earth and the heavens." Many years afterward, at the meeting of the American Association for the advancement of Science, at Providence, he argued with the same enthasiasm on his favorite topic. He said, "All the scientific men ask is time, and time the religious men are ready to grant." From his learning, his ability, his position, an his zeal, he was enabled, by showing the eternal harmony of the two, to render a service to both science and religion which will never be fully appreciated.
Professor Silliman was remarkable for his warm and genial nature; his life was an exemplification of the Christian virtues; and after doing more perhaps than any other man of his generation for the advancement and diffusion of knowledge, his long and useful career has been brought to a close amid the sorrow not only of his countrymen, but of alllovers of science throughout the civilized world.

## OIL CUPS.

A most objectionable and wasteful practice of using oil cans, instead of oil cups, for lubricating machines, prevails extensively. It is objectionable because uncleanly, for one reason, and extravagant because too much oil is pat on at once. A journalwill carry only a certain quantity of oil, and all that,is poured in after the surfaces are well covered, runs off at the nearest aperture. When oil cups are appliel, and properly used, the bearing takes up all the oil admitted, and uses it economically; that which is now lost might be saved. By'an oil cup we do not mean a simple brass funnel to guide the nose of the can to the proper place, liut a cup with a wick and a tube, or the equivalent of this device, for feeding the oil at regular and proper times. The wick and tube is the one generally used, and it can be made to feed fast or slow according to the amount of oil needed.
The filthy drip pans placed under the hangers of shafting are entirely unnecessary, and should be dispensed with by using cups. Many a suit of clothes has been spoiled, and not a little profanity caused by the upsetting of these drip pans, and the descent of their contents on workmen when belts run off, Where oil cups are not used fully one-half the oil poured on the bearing runs out again; and, as a matter of economy, every manufacturer, of whatever olass, should see that his engines, his lathes, shafting and similar machines and fxtures are furnished with oil cups that feed the lubricator to the journals, as fast or as slow as it is required.

## Good Inventions in Demand.

There never was a time when really good inventions were in so great demand as now. Almost every day we are called upon to prepare assignments for parties who have recently obtained patents, and we have been surprised at the large prices which rights on some small, useful articles have commanded.
In another column may be found an advertisement of two brothers who wish to invest $\$ 10,000$ in some new and useful improvement in the hardware trade. The advertiders are known to us to be men of integ rity, and to mean what they say, so that parties having any patented article for sale which meets the re quirements set forth in the advertisement may correspond with them in full confldence of honorable treatment.
A Boston firm has just put into operation, at Fisherville, N. H., a factory which transforms poplar wood into "excelsior," for flling mattresses, at the rate of two tuns per day.

## MARKETS FOR THE MONTH.

The leading feature in the market for the past month has been the great fluctuation in the price of gold, which has ranged from 260 to $209 \frac{7}{8}$. As long as our currency is so inflated it will doubtless be subject to these disturbing fluctuations. The tollowing table shows the prices of the leading staples, reckoned in our paper currency, at the end of October and November:-


Price Nov.
$\$ 900$
00


## FARMERS' CLUB.

The Farmers' Club of the American Institute held its regular weekly meeting at its Room at the Cooper Institute, on Tuesday afternoon, Nov. 29, the Pres ident, N. C. Ely, Esq., in the chair.

## emigration to maryland.

The President read a letter from W. Bayard, Esq., of Maryland, in reply to an invitation from the Club saying that he would be present at the next meeting, on Tuesday, December 6th, and would explain the advantages and disadvantages of Maryland as a placs or immigration and settlement by Northern farmers.

## osage orange hedges.

Solon Robinson read a letter from S. W. Noble, of Leroy, Ill., saying that though the tops of the Ossage orange are occasionally killed by extreme cold in the winter, the roots are not injured, and the freezing does not impair in the least the effectiveness of the hedge the reats throw up freah spronts, and the old stalks stand as a perfect fence till the new sprouts are grown.
the best early potato.
Mr. Carpenter gave it ás his opinion, trom extensive experience, that the Early Cottage is far the best and most profitable early potato.
cedar birds.
Dr. Trimble, being called up, stated that the bird which eats such large quantities of canker-worms is the cedar bird, and that is what he called it beforonot the reed bird. Besides the name of cedar bird, it is also called the cherry bird, the canker bird and e wax wing.
Dr. Trimble continued, "Mr. Chairman, I also said that the Baltimore oriole eats the curculio, and that I had found the head of one of these insects in the crop of a reed bird. I have here an agricultural paper in which the editor says that he does not le lieve that I know what a curculio is. I have win tered and summered with the curculio for the last 25 years. I have studied its habits, examined its structure, written upon it; I have provably killed more o the insects than all of the rest of the inharitarts of the United States. The curculio has a very large eye, containing, as nearly as I have been able to count under the microscope, 147 lenses, There is no other species of this class of wevils the eye of which has very nearly the same number of lenses. Some have very few, and some a great many more. Now, I found in the crop of a bobolink the proboscis and eyes of an insect that resembles the proboscis and eyes of the curculio. On bringing the eye into the focus of the microscope, I found that it contained 147 hemgonal lenses, and I think I am just fied in stating that, at all events, one reed bird h s eaten one curculio."
Many other subjects were discussed, but we select only the above.

The Country Gentleman says that scraping the horns of oxen on the inside will make them curve outward, or vice versa.


ISSUED FROM THE UNITED STATES PA'TENT-OFFICE FOR THE WEEK ENDING NOVEMBER 29, 1864.

Promphlets containing the Patent Laws and full particulars of the mode of applying for Letters Patent, specifying size of model required and much other intormation useful to inventors, may be had gratis by addressing MUNN \& CO., Publishers of the Scientific american, New York.

## 5,214.-Apparatus for amalgamating Gold and Silver

 Henry N. Adams, New York City : I claim, first, Amalgamating gold and silver contained in pulver.ized ores, tallings, or other netaifer uis material ty means or
quick oriliver brought in contact therewith min the condition of vapor,
under a mode of operation gubstantially such a sabove set forth.
Second, The discharge of the distilled vapor of quicksilver rrom a
 taining gold or ailver in a pulverized state fromi a bopper into a rota-
ry or oscillating and inclined cyllinder or chamber, which is fed in a
continuous stream with the ald quartz or material from the said
hopper, by means of the rorating or oscillating motion of the said continuous stream with the said quartz or material from the said
hopper, by means of the rotratino or ogcllating motion of the said
cy
pose er or chamber, substantially in the manner and for the purpose set forth.
Turd The combination of the appara us for supplying the retort
With quicksilver with the retort, substantially in the manner and for Fhe quicksiliver with the retort, substantially in the manner and for
Fourth, The cifled. Fourth, The combination and connection of the retort and the re-
Volving or osccllatlog cylinder and abamber, by means of the worm
 the retort with the said revolving cylinder or chamber, in the man-
ner and for the purpore herein named.
Fitth. The staionary hopper, O, in combination with the rotating Frit. Sithe stainonary hopper, ov, in combination with the rotating
ond far the purpose mentioned. and for the purpose mentioned.
Sivth, The partition of gaid hopper, 0 , with its aperture and plug,
, in combination with said hopper, in the manner anil for the purpose described.
Seventh, The stuffinc-box, $N$, in combination with the feedlng end
of the rotating or oscillating cylinder or chamber through which it of the rotating or oscillatin, cylinder or chamber through whicli it
pases and in which it worle, substantially in the manner and for The purposes set forth.
Eighth The surrounding jacket pipe, a, in combination with that
part of the worm which passes througis the hopper, in the method and for the obiect desienated.
Ninh, The mode of sealing the upper or feeding end of the ro.
tating or oscillating cylinder or chamber by plunging it directly into tating or osillating cylinder or chamber by plunging it directiy int
the pulverized quartzop gold or silver bearing substance contanined
in the hopper and allowing ito revore out matter, substantially in
the manner and for the object specified. Tenth, The revolving or or osillating motion of the cylinder or
chantber, teeding of which moves in the nulverized matter th be supplied to it for agitating and drawing the said pulvecized
substance into and througthe sald eylinder or clamiler, in acen-
tinuous and equable stream, in the manner and for the purpose me end of the, The wrotang or oscillating cbamber by means of arms or
heir their equivalents, to descivibe a larger circce than the sald cylinder
or chamber in its revolution or oscllation in the pulverize ore con
 swe
Twerth, the combinatlon of the receiving elutriating pan with
the discharging cylinder or chamber or its equivalent, whether movthe aischarging cylinder or chamber or its equivalent, whether mov
ing or stationary, Fhen the said cylinder or chamber, either revolv-
ing or stationary


 work over the said mass and separate from it the fne dewy particies
of quicksilver condensed throun it, and collect them into a liquid
state to be used over again, all substantially in the manner and for
 mass and work out of it the fine particles of quiclasilver, dissemin.
ated through inhen the sid fine partioles result irom the conden.
satian of the distilled vapor of that met
 device by which the rotat, ng shant when att aohed by a belt or its
quivalent to the driving ower, hhall move both the rotatng clin.
der or chamber and the frags, K, or their equivalent, substantially der or chamber and the drags, K, or their equivalent, substantially
in the manner and for the purposes specifed.
Fifteenth, The ue of a rotating or osillating conveyor for turn
ing over and exosing the ore to thic vaporlzed quicksilver during
 or near the bottom of the arastra so that the water may reach np
otherin and around it ithe jacket pipe, and act on the desend
an vapor of the quicksilver as a aondensor in the revelving or or in vapor of the quicksiler as a aondensor in the revelving or os
cillatiug convegor, substantially as and for the purpose above de Seventeenth, Naking the Joint which connects the conveyor witl
the arastra, and sustalning the lower end of the conveyor by means the arastra, and sustanning the lower end of the conveyor by means
of a pipe,, e extending from the arastra, which permits the rotation
of the convesor in water and preme fite escape of the vapor of of a pipe, , extending rrom the arastra, which permits the
of the onvenor in water and preter the escape of the
quick silver from its lower end, substantiany as described.
45,215.-Cigar-holder.- Louis A aguste, New York City I claim the application to a smoking tube, A, of a tubular socket,
f, with perforated partition, , , and cap , h, and applide to the mouth
piece, e, the whole constructed and arranged substantlally as herein piece, e, th
set forth.
[This invention consists in the employment of a removable sponge older arranged in the interior of the c gar-holder and provided sponge bolder will not obstruct thedraught, and that it can be readiy detached from tbe cigar-holder, and the sponge can be removed and cleaned without disturbing the other parts of the cigar-hoider, ble material can be septin contactwith the smoke and any desired avor can be given to the same.]
45,216.-Grubbing Machine.-Cortland Ball, Augusta,
 the eye bolts, $F$ F (on the peripherles of the wheels, $\mathbf{B}$ B), and the
chain, $H$, all constructed, arranged and connected as herein show
and described. and described.
(Thls is one of the most powerful and quickly operated machines for the purpose that we haveseen. If any body wants a first rate
grubbing or root-raising machine, we advise them to address the tnventor of the above.]

