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 genera'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, and 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 applied, 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 fixtures 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 requirements 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:-
Coffee (Anth) (Jara) 2,001t th
Copper (Am. Ingot
 Cotton (middling) (State) 10

 32000 @ 14500

$\begin{array}{r}\$ 1550 @ 1600 \\ 900 @ 10 \\ \hline 00\end{array}$
700 @12 ${ }^{0} 0$

90 (18) 10

## 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 presentat the next meeting, on Tuesday, December 6th, and would explain the advantages and disadvantages of Maryland as a placs for 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 hodge the reats itrow 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 as 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郎 wax ming.
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 babits, examined its struc ture, 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 $29,1864$.
${ }^{4}$ Pamphlets 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, frrst, Amalyamaing yold and silver





 the quick esililer rith the retort, substantially in the manner and for
Fourth, The combdination and connection of the retort and the re




 of the rotating hosilitation, cylinder or chamber through whicl it
pases and in which it work, , uubstantilly in the manner and for







 Treiftch, The combinatlon of the receiving elutriating pan with
the dicharing clinder or chamber or sts equivalent, whether mov-

 same time the pan is sapplit ed with the grinding and mashing drags
K, or any equranent crushing device by wbicho apparatui the sali
pan becomes substantially an arastra. and shown substantiall in
 work over the sald mass and separate from it the fne dewy particles
of quicksiverondensed through it, and collect them into a liquid
state to be used oren again, all substantially in the manner and for
 mass and work out of it the fine particles of quiclsi ive er, dissemin.
 device by which the rotat, ing shant when att aohed by a belt or its
equivalent to the driving power, shall move both the rotatng crlinn.
der or chamber and the trags, $K$, or their equivalent, substantially der or chamber and the drags, K, or their equivalent, substantially
in the manner and for the purposes speciffed.
Fifteenth, Theuse of a rotating or oscllatng conveyor for turn-
ing over and exposing the are to the vaporized
quicksilver during

 inn vapor of the quicksiliver as an onden onsor in the rewolving or os
cilativg convegor, substantilly as and for the purpose above de Seventeenth, Naking the JoInt which connects the conveyor with
the arastra, and sustaining the lower end of the conveyor by meann the arastra, and sustanning the lower end of the conveyor by means
of a pipe,, , extending from the arastra, which permits the rotation
of the convesor in water and preme fhe escape of the vapor of of the convexor in water and prometa, Whie espermits the the
quick silver from its lower end, aubstantaily 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, g, and cap, h, and applied to the mouth
piece, e, the whole constructed and arranged substantlally as herein piece, e, th
set forth.
[This invention conslsts in the employment of a removable sponge holder arranged in the interior of the c gar-holder and provided ponge bolder will not obstruct thedraught, and that it can be readi$y$ detached fom tbe cigar-hoider, and the sponge can be removed and cleaned withoutdisturbing the other parts of the cigar-hoider, ble material can be septin contactwith the smoke and any desired
and avor can be given to the same.]
45,216.-Grubbing Machine.-Cor'tland Ball, Augusta,

 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.]

45,217.-Refrigerator.-George A. Banta, New York
City. Ante-dated Nov. 1G, 1861 :


 Second, I claim the division, k, formed of slate with air chamber
between the wooden case and liate divisionsso that said slate has a
circulation of air on both sidus, as and for the purposes specitied. 45,218.-Device for making Curvatures in Flexible Tubes.-Alexander Beckers, New York City : I claim a helical curvature to surround the flexible pipe at the
ngle or hend, or the purpeses. and as ansecinici
Ialso claim f connection extending from one end to the other of Ial so claim a connetion extending from one end to the other of
said helical curvature, to retain the same at any desired distance
apart, and preserve the bend or and 45,219.-Tobacco cutter.-Abijah E. and Josiah B. Blood, efyll, N. Y: knitc-bar, D D, the lever, F, the gulde-pin, d, and the side frame rames or
checks, A , all construted ant operating substantially in the man
ner and tor the purpose succified.

 5, 220.- Air-pump.-N. H. Borgfeldt, New York City :
 provided with a central supply pipe, b, and one or more radial dis
chrye cinnnes, in combination, with the spring valves, e, and
wings, C , constructed aud operationg substantially as and for the pur Third, The application of a cam groove, g, in combination with
he wing or wings, C and revolving disk, A, constructed and operat he wing or wings, C and revolving disk, A, constr
ng substantilly as and for the purpose specitied.
[This invention consists in an air-pump provided with one or more , part, which, when movis in one direction, work agains the pressure of the air previously compressed by the action of the an, and at the same time create a vacuum to be occupied by the partially or wholly propelled by the action of the air previously he vacuum, is facilitated.]
45,221.-Insulator for Telegraph Wires.-David Brooks
Philadeiphia, Pa.

Philadeiphia, Pa.
 second, Coatmg the interior of the space above the glass block a
wil as the edre of the casing, and of the sulphur near the sam well as the edre of the casing, and of the su!phur near the same
also the stem of the wire holder with parattine, in the manner and or the purpose described
45,222.- Yuartz-crusher.-Andrew Buchanan, Brooklyn, Ante-dated Nov. 26, 1864:
I claim, finst, $A \infty$ am improvement in
quarte-crushing machines
 substantially as and for the purpose herein shown and desc
Second, The application o the sile flanges $\mathrm{D} \mathrm{D}^{\text {, to to the }}$
wheels, $\mathrm{A}^{\prime} \mathbf{A}^{\prime}$, substantially as and for the purpose set iorth.
45,223.-Car Sash Fastening.-W. H. Burridge, Cleve-
land. Ohio :

45,224.-Process for engraving Copper, etc.-A. F. Bur son, Nt. Mlanclaril, olio:
I claim, first, As a neiv mode of prolucing an iodo-polished sur



 th, which modithes the mercurial vapors, causing it to be well de-
med on the lightor the inase that has bee: produced on the plate
by means of light by means of light ithim as my invention the method or iodizing po shed conper plate onco modifying the vapors of mercury, which
whien maninu lised as described will produce a sharp and well deined picture (which I designate a photope), and on the lights of this
mage, produced in this manner. coper can, by means of electro

 npplying silver or g.ld to alerate liglits as a durable portrait, etc.., or
the inase may be cteched in in prace of dupsiting copper thereon
in the usual inanne. Let it hee be understood that the coppor noting to pe a proto © inn from the depositor copper in the coppor
cell, must be evposed to noditied mereurial vapor, and have als



45,225.-Oscillating Valve.-J. W. Carhart, Cohoes, Y.:
$\qquad$
 ocket, B, to opc:zte
hown and describelt.
tThis invention consitits in the use of a plug or valve with one cir cular anit one semi-circular end, the two ends being connected by that abutment in such a manner that when the plur is fitted into a ts semi-circular end closes the ena coses the socact alriound, but to the steam to that compartment of the socket below the abutment and, by imparting to this plug an oscillating motion, the steam can be cianged, throwing the parts alternately in communication with the steam pipe and with the exhaust pipe.'s
45,226.-Machine for making Sheet Metal Pans.-Chas.
F. Chambers, Hutsonville, Ill I claim, first, In the de:cribed combination the form, $\mathbf{H}$, clamp,
L, and the upsetting roller, E, guided And operated substantially as



45,227.-Scraping Disk or Wad for Ordnance Cartridges.
ceaim, tirst, The combination of the scraper as described, or ith
in ivalent, vith an india-rubber ordnance powder bas, applied with
in the s.mine substantially as described. in the sume substantially as described.
second, The construction of the scraper with an annular chamber
e, and flanges, $g$ substantially as sescribed. 45,228--Harvester.- John Curtis, Hackettstown, N. J.
Ante-dated Nov. 21,1864 :

constructed and operating in the manner
stantially as nerein slown and described.
LThis invention consists in the application to the platform of reaper-of a reclining frame furnished with two or more endless carying bands stretched over suitable rollers or pulleys, in combination with curved guide bars and with an adjustable rake in such a man reclining po.sition to the carrsing bands, and thenco passed on to the curved guide bars which deposit the sagee in a awath on th ground in a position parallel with the rake head, or transversely to the direction in which the machine moves, and that by the action of the rake the gram can bereadily gathered in beaps or bundles suit able for sheaves.]
45,229.-Flasks for Drain Pipes.-Edwln Dayton, Meri den, Conn.
I claim, first, A case constructed substantially as described so tha
he parts may be united in any position in which they may be se
ogether, ior the purposes spectice ogether, ior the purposes specine
second, The ringsforming the
on with the body of the case, when constructed so as to protect the
diges of the case, substantially as
Third, The combination of a case and base when constructed $\%$.
hat the case may be longer than the pipe to be formed therein, sub
stantially as and for the purpose the pitied.
Fourth, गhe hercin describedcore, constructed substantially as an
or the purpose specified. in combination with core caae and bas
Fifth, 'the pit described mand
orming a flask, for the manufacture of pine, substantially as and
or the purposes specified.
45,230. -Changing Rotary into Reciprocating Motion.-
Niexander Dean, Penn Yan, N. Y. Ante-dated Nov. 25, 1864:
I clain the drum, C, provided with the rims d d d, and the cam
ings, ff having cams, g , of varying eccentricity foting thereon
in
 45,231. - Cultivator Plow. -John Doak, Keithburg, Ill.: I claim connecting together the beams, G M, by means of flexible
 45,232.-Hand Seed-sower.-George C. Fauckbone Schoolcraft, Mich.
I claim the cord. B, pulleys, , and lever, $F$, in combination with
gage pins, H H and E and hopper or box, A, substantially as and
or the purpose set forth.
45,233.-Tobacco Pipe.-Abijah Fessenden, East Boston Mass.:
Claim dividing the bowl of the plpe into three or more concentric described and for the purposes specified.
45,234.-Animal Trap.- J. M. Flautt, Reedsburgh, Wis. pet, F on the edge of the trap door, and with the lever, $h$, chain or cord, , spring catch, i and gate, D, and trap door, C , constructed escribed. I claim in combination with the above the weighted line,
Second,
d, wheel c, and ceccapement, b, by which, when the door is freed, it
(This invention consists in arranging in the passage leading from the trap to the cage and connected with the trap door a hinged gate,
in such a manner that the animal in passing fom the trap to the cage locksitself in and at the same time resets the trap.]
45, 235.-Rlding Saddle.-J. M. Flautt, Reedsburgh, Wis. scomposed of two divtinet parts and connectel to thee salldle tree substantially in the manmer herrin specificd, so that
be readily chanked from an ordinary to a side saddle.
LThis invention consists in the application to an ordinary saddle to the saddle tree in such a manner that the saddle can be readils changed from an ordinary to a side saddle, and that one and the ame saddleserves the double purpose of an ordinary and of a aid addle. 1
45,236.-Sewlng Machlne.-John G. Folsom, Winchen
don, Mass.
 of tis shaft, whether it be a vibrating or revorving looper, substan
tially in the manner and for the purpose above described.
Second Locking the Second, Locking the looper in its proper position by sinking its
eye and shank in the end of its shaft, substantially as above de-
scribed.
[This invention consists in a novel method of adjusting the uppe ing the lower needle to its shaft.]
45,237,-Safoty Ship and Car-heating Stove.-George F. Foote, Cincinnati, Ohio

I claim, first, A safety car and ahip-heating stove made of wrousht
or sheet iron arrangcd with a ho rizontal p patee. A, or perforated plate or gratng B, when the above is combined with the or perforated plat openings
K , substantially as and for the purposes get torth K , second, In combination with a a stove constructed and arranged
as specified in the foregoing clause, I claim the safety door fasten-
ing ,, , as describe.
45,238.-Machine for scparating Hooks and Eyes. Maltby Fowler, Northiord, Conn.:
arating hooks and eyes, and similar metallic art a mac inne for sep
 cles are recaivecl.
[This invention relates to a new and improved machine for separ atinglooks and eyes and other articles aiter being plated, in order latter cools.]
45, 239.-Lighting Gas by Electricity.-Samuel Gardiner
J., New York City

I claim dividing the cirrent of electricity, generated by a galvanic
battery, into several circuits, as herein specified, for the purpose of
lighting a large number of lighting a large number of gas burners by electricity.
45,240. - Lighting Gas by Electricity.-Samuel Gardiner Jr., New York City
claim, first, The turning
and discharging the elcetricity through a a geries of gas burners to be
 or its equivalent, as speciifed.
Fourtl, I claim discharging $t$
 per
© $5,2 \downarrow 1$. Lighting Gasby Electrlclty.-Samuel Gardiner
I claim broadly a tip of lava or other non-conducting material in
he described combination, with an apparatus for ligbting gas by
45,242.-Crutches.-Y. E. Gordon, of Cleveland, Ohio
I claim, Arst, The arrangement of the springs, S S, ferrules, $\mathcal{G}$ a

In combination with the head, $C$, and sectional side rods, $A$ A and
B B as and tor the purposeset forth.

 set forth.
45;243.-Artificlal Grindstone.-George C. Griswold, of Chester, Conn
I claim ombining sand with hydraulic cement, to form a substi-
tute tor the common mrindstone. when the same shall be combined
substantially as herein described. 45,24.--Varming and Fentilating Churches and Public I claim making the foors of church buildings and other public I claim making the floors of church buildings and other publin
balls with open oints or perforations, which open joints or perfora-
ions are provided with movable stops, D , for regulating the passag of the air through the opening, in connection with a basement o lower room, having suitalle stoves or furnaces tor producing the
requisite amount or heat, so that the heat from this lower room
may be conducted directly through the foor into the pews or slips

45,245.-Elevators. - N. D. Hinman, of Pleasant Vale Conn.:
 with the button, , on the chain F and thic pin e, on the incline
ways, 1, all arranged substantialy as and for the purpose herei
set forth Ifurther clatm the bent pawl, $\mathbf{H}$. with the sliding rod, $\mathbf{O}$ or it

(This invention relates to a new and useful impreverment in tha class of elevators which are connected with a car placed on elevate ay, a darranged in such a manaor that the load, when elevated and then dumped. The invention is chicfly designed for elevating nd mowing hay and grain in bains but it is applicable to othe purposes.]
45,246.-Mowing Machines.-M. G. Hubbard, of Syra Icaim the combination and arrangement of the ratchetring and
ogs in the dr ivinn wheel of a mowingmachlae, substantialy as and ors in the dr ivine whe
for the purpose set forth.
45,247.-Steam-pressure Gages.-John Vivian Jepson, of
New York City. Patented in Canada Nov. 5, 18613 I claim, the combination in ap ressure gage of the piston, flexibl I also claim the combination of the piston and soring with the
toothed sector, pinion and index, through the intervention of a slide toothed sector, pinion an
substantlally as set forth.
45,248.-Self-acting Pulley Brake.-John Jochum, of Brooklyn, N. Y.: brate juhtr, to be tuspended bs a rupe, B, and consisting of the 45,249.-Earth Pulverizer.-John. Johnson, of Mount Washington, Ohio
I claim in the construction of the implement herein desoribed th ished with open teeth, b, curved in the manner described, traction thilly as and for the purposes herein specified.
45,2;0.-Trusses for Inguinal Hernia.-S. \& W. H. Jor we claim an our invention tho improved inguinal truss, consistin
 $\underset{\text { Newark, N. J.: }}{\text { 45, }}$, Felegraphs.-Charles Kirchhof, of First. I claim the combination with a magneto machine of the au
tomatic operatiny mechinism. to tike the place of an operator, an so constructed as to convey any required number of signals at un properly setting the indexes before starting the machine.
Secona, I chaim the traveler, 1 , constructed and operating substan tialy as described.
Third, 1 claim regulating the number of signa lg or impulses, by
means of the slising tod, D, and plate, v ", operated by theattend ant, substantially as specitiled.
Fourth, I caim the oscillating whel, A, when constructed and
 orth.
witith, I claim the key, f, constructed as described, in combination
witi the cam, e2, operating in the manner and for twe purpo,ses set forth,
Sevent $h$, I claim so constructing and arranging the automatic op
enators, $A$ and 1 , that they can be thrown in and out of connection 45,252.- Converting Motion.-A. E. Kline, of Goodville I claim the combination of the elliptical groove, $D$, and roller, $E$,
with the cross groaves, $b$, and disc, $\Lambda$, in the manner and for the 45,253.-Apparatns for Pasting Photographs on Cards. Charles S. Lucas, of Poughkeepsie, N.


 purposes heretofore described and set forth. the hed, $\mathbf{O}$, and slide, $E$,
Fourth, The slide jolnt, int for counecting
or the purpose heretofore sct forth and described.
45,254.-Car Replacer.-John Mable, of New York City I claim the blocks, A A, provided with fanges, E F, and with hooke
lips, a nd either with or without the plates, B, all arranged sub
stantiall for the purpose herein set , (This invention relates to a new and improved apparatus or devic or placing railroad cars on the track in case of the former running to obtain a simple and economical device for the purpose, which ma be carried on the tender of the locomotive, so as 'to be always read when required for use, and which may be very readily applied to the alls.
45,255.-Sugar Mold Carriage.-Alexander Mackey, of
I clalm flrst, The construction of the djustable upper portion of perate kusart:ally as and tor the purpose hereirs specified.
second, The sianlurd, $J$, a nplied in combination with the uprigh spinde of the caster or Guile wheel, and with the bottom frame, A 45,256.-Cooking Stove.-A. S. Markham, of Bushnell III.
 ated substantialiy as and for the purpose above described.
Socond, I alo claim the coal frate, with its journals, p, bent do
as described in combination wht the tubes, $i$, the trough, $t$, and
the silding rodas a, connecting rod, b,
and for theporpose above deecribed.
[This Invention consists in soconstructing gratesf or cooking and other stoves as to enable one to ralse and lower them at pleasure The derices emplosed make the principle applicable to both coal and wood grates, and the dumping of the rate is provided for when the coal grate is used.]
45,257.-Seed Planters.-James M. Maxwell, of Cape Elizabeth, Maine. Ante-dated Dec. 13, 1862 I claim the comblnation as wellas the arrangement of the sed prow rux d he wheel arranged th the beelof tbe latter.
palso claim the combination of the gate
I also clailm the combination or the gete D, and its operative apparatuc and the plowision of the wheels, s , and their operative

Ialso claim the improvement by which the furrow-opener and 1 t Closers are enabied to pass a a tone or obstacle, the same consistit
in the fiexible conductor and the jeldins sup orting arm, the same
 45,258.-Pocket Pipe Cleaner.-Gustavus E. Matile, of Washington, D. C.
I claim the arrangement of the marious parts of a pocket pipe
cleader the the manner and for the pur pose specifed, substantant
asd as, 259 . - Machine for Scutching Tangled Flax.-William
C. First Mclaim atid of Rarita
Frist, I claim Attaching the gactiching blade arms, a, to the disk



 ${ }_{\text {set for fotar }}^{\text {the }}$
45,260-Apparatus for Reversing the Motion of Rolls.-
 sisting of two shafts, band b, placed in tin the same axial line, one o


 driving shart, a, which moves in one direction, or wih the miter
whel h, and loose eeve, $e$, which move in the oppoite direction,
substantially as described. 45,261.-Fibrous Packing for Steam Engines.-Wm.

April 3, 1863



 other
$45,262$. - Breech-wailinf Fire-arms.-William Morgan gtera, of Philadelphia, Pa.:
opensen of the barrel of a frearm, in combination with the tivt thd





 with the sidid breech, in combination with the inclined arm of the



 In respect to the lever, E, and operating substantisilly as and for 45,263.-Eye Protectors.-Lewis Morse, of North Attleboro, Mass.:
 45,264.-Cultivators.-James D. Osborn, of Goshen, Ind.:


 scribed, I claim the slide, Q, arranged and employed substantially as
and for the purpose spectined.
45,265.-Carriage Springs.-R. W. Parker, of Woburn,

 theirs sidersbet men
and described.
[This invention consists in having two springs constructed, either of metal or wood, and beut or curved in bow shape. with parallel, or nearly parallel sides, said springs being attached to the front and
back bolsters of the vehicle with their sides, underneath the sides of the body of the latter, the body resting on the sides of the springs, and all so arranged whereby it is believed that several advantages are
45,266.-Medicine Chest.-R. B. Parkinson and J. M W e claira, Arst, A medicine chest, canoprosed of thipexterior case or cover, $A$, or leather or other like materlid and thmilinterior box, C,
with spaces arranged be wen the two, substantiall as and for the
purpose herein eet forth. purpose herein set forth
Second The combination of the sald case with
at the

45,267.-Horse Collars.-George F. Parsons, of BaltI claim the impro nules, etc., conptroceded articie of manuracture, the collar or or harses ent talayers of the leatherr or other material being secured to each
other by metallic rivets, as herein recited. 45,268. - Machine for Making Nuts.-James Paton, of First, Iclaim the above


 arranged and operating conjoiatly, substantially as and for the pur
$45,269 .-$ Machine for Making Bolts and Rivets.-J. Paton, T. Camp bell, and R. Paton, of Newburg, Ohio:


 45,270 - Fifes.-John Ptaff, of Philadelphia, Pa.:
I claim the ridges, b, arrangedin respect to the mouth opaning: 45,271.-Washing Machine.-Wm. Pollyblank, of Cleveland, Ohio:
in comhina ion in comhina tion with the rotating corrugated cyllinder B, circullar
irame
pose set ot orth. tub, A, when operating coojointy as and for the pur-45,272.-Wash Kettle.-John Reist. of Philadelphia, Pa.

 45,273.-Wind Wheels.-George H. Reister, of Washlington, Iowa


45,274.-Frames for Saws.-Thomas D. Roberts, of Mid$\underset{\text { dletown, N. Y. }}{\text { dial }}$

 shown and described
(This invention relates to an improvement in that class.of hand saws in which the saw blade is strained in a wooden frame, and it consists in constructing the frame of the pleces of wood with a cen tral bar, the saw blade being secured in the two main parts of the much iess cost than the ordinary frames, and also be more durable. 45,275.-Print for Bituminous Roofing Fabrics.-Alfred Robinson, of New York Ciiy :
I clalm a bituminous roofng fabric, havigy itg
suitable color, substantially as herein demerbed.
45,276.-Brush Handle.-Fred. Rudolph and Wm. Kase-
fang, of Jersey City, N. J.:
I claim a hoop or loop, c, projecting from a shank, B. in combina-
on with the hinged jaws, E E, and Gandle, A, constructed and op45,277 .-Churns.-Henry Soggs of Columbus, Pa.:
 45,278. Sewing Machine--Greenleaf Stackpole, Ells-
worth, Mrine. Ante-dated Sept. $17,1863:$ Worth, Malne. Ante-dated Sept. 17, 1863 :
Ir claim the line of sewing witb auxilhary machinery for simulta neously making sirtil hit row of ctitchese of setwing and paralle seld separate and ristinct
whole belng substantially as abovedescribed. I also claim the combination or its cquivalent of the said auxiliary and by such means as to enable the two shuttles and two needles
and tbeir accom panying parts to be simultaneously ady usted rela-


 machine or the platform. e2 moves easilyunder the briage when one
end of the bridge is fastened to the maln machine, substantially as end of the erride
above descrised. fasning of two shuttles simultaneously in separate
I claim the runing
race ways, face to face and parallel to each other, which are adjustarace any distance apart in conjunction with the needles, substan-
blaily as herend described. I caim heren the simnitaneous running of two separate distinct parallel
I curved lines of sewing any distance apart, disconnected from ach
other when using to form the same, two shuttles running face to
45,279.-Carriage Axle Box.-Wm. Stechschult, Glandorf, Ottawa Postoffice, Ohio
 combination with the screw plug, d, annular groove, e and linch-
pins, for, constructed and operating in the manner and for the pur-
pose herein shown and described.
[This invention consists in an axle box which is cast solid with the small oil hole that is when not s manner that the oll poured in the axle box is scraped oft and pushed back theren by the action of the is allowed to waste, and furthermore a solid, cheap, and durable axle box is produced.]
45,280.-Churn.-Alexander Stevens, Washington, I claim the
and upright cylinders, the same being constructed and operated as
herein set forth. 45,281.-Street Railway Car.-John Stephenson, New I claim, frst, Th
I claim, frst, The employment or use of theiron or other metal hat the ends of the truas rods may pass through them and be frmly Second, The passing of the truss rods, $\mathbf{c}$, through the sills, a, of
the car below their undersides, substantially as described. Third, The combination of the truss rods with the abutmentsjand
studs, all arranged and applied as and for the purpose set forth. 45,282.-Corn Harvester.-Thomas H. Storms \& John
We claim. first, The ardiattable or pivoted


Second, The wndlasg, N, when used in combination withthe annu
lar frame, P, and its attached parts, substantially as and for the
purpose specifed purpose specified
rectro, The silding and sullugtable platforms, I I, arranged in con-
nection with the oars, $\mathbf{H} \mathrm{K}$, so as to admit of holding the stalks nutil they are grasped by the jaws, s s, and then admit of beling
shoved hack, and turned upward to allow of the abock being dis-
chargen, as described. chargen, as described, in combination with the reel, R, cutting de
Fiourth, Therest,
vice, $\mathbf{D}$ movable or pivoted bars, $Q$, jaws, $S S$. annular frame, $P_{P}$ glldes, O O, and windlass, N, arranged on a mounted frame, substan
tially as and for the purpose specifed. [This invention relates to a new and improved machine, whereby standing corn may be cut and leftupon the field in shocks, tbe whole chine.]
45,283.-Washing Machine.-Frederick C. Walker, New York City. Ante-dated Nov. 16, 1864 :
I claim constructing a washing machine with a series of corrugated slats alternating with each other, in combination with a semi-cylin-
drical rubberformed with a cavity, for the purposes and as speci-
fied.

45,284.-Constructing Bales of Hay.-Orson \& Charles
Waste, Cameron, Ill.: We claim the constructing and arranging a bale of hay with sheets
of hayy hich have been pressed or crusied and cut, in the manner
described.
45,285.-Machine for Preparing Hay for pressing into
Bales.-Orson \& Charles Waste, Cameron, Bales.-Orson \& Charle's Waste, Cameron. Ill.:
I claim tbe rollers, C C, and knives, D D, when constructed and
arranged as andforthepurpose specifled. 45,286.-School Desk and Seat.-Theos. Weaver, HarrisI claim, first, The standards, A A, the foot rest, $B$, which pene-
trates them at various hights irom the lior, the book wase, $P$ P $P$, trates them at various hights irom the floor, the book-case, $\mathbf{P} \mathbf{P} \mathbf{P}$,
combined and arranged substantially as and for the purposes hereln
describer
 their ax, $D$, $D$, perating substantially in the manner as and for the
the Third, The combination and arrangement of the adjustable rods,
G and H, the diverted rod, F, the sliding back, E, the seat, K, the
ratchets, I I the automatic sprino O, supported'bs its coils' around ratchets, I I, the automatic spring, O, supported by its coils around
F, and its insertion into the back, E, operating substantially in the
manner as and for the purposes herein shown and described. 45,28\%.-School Table and Seat.-Theos. Weaver, Har-
 When adjuxted, and the batr racks formed by the hooked extremitites
of the burrs, combined, arranged, and operated as herein shown and of the burrs, combined, arranged, and operated of the compound ad-
deccribed. justable leaf, A Comblnation hand arrangement of the compound ad-

 and for the purposes bere in set forth,
Fourth, The combinatio on of the adjustable ledge, B, with sections, 45,288.-Car Coupling.-Edwin F. Wells, New York I Claim the drop pin, $B$, in combination witb the segment slide, $G$,
fited in a currefo opening, $F$, at the rear of the opening, $D$, which
 recelves ink or shackle, E, to operate
with a lik
and for the purpose hereln set forth.
LThis invention relates to a new and improved car coupling of that lass which are commonly termed self-acting or self-coupling.] 45.289.-Amalgamator.-Zenas Wheeler, San Francisco, I claim the pan, 0 or with a double bottom or diaphragm in com.
nation with the stir rer, $A A$, and guides, $E$, substantially as $d e-$ 45,290.-Revolving Fire-arm.-Rollin White, Lowell, I cialm arranthtg the trigger in the frame in which the many
chambered erfive

 ing cyilnder. Inclaim in combination with a divided or sectional hub in a hoista rope wheel or its equivalent on the other section, and a cam inter pose, so that when the sweep rides up on the cam, the sections of
the hub whll be disconneted, and the rope allowed orun independ-
ent of the motion of the horse or team, substantially as described. 45,292.-Metallic Cartridge.-Wm. H. Wills, Boston, I claim covering the beel of the cartridge case, A, by a metallic
screw-cap, B, subetantially in the manner and for the purpose set
torth 45,293.-Tool for Cutting Rivets.-Peter Wixcel, Lafay-
ette, Ill: I claim connecting the movable Jaw, B, to the cam leverby means
of tbe joint, e, or its equivalent, substantl ily as described. [This invention consistsin improvements upon the ordinary bolt ing bo whe the contis constantly increas
ing as the cutting proceeds, until the work is in shed.]
Brown (assignor to himself and Lucien Thorpe),
Providence, R. I.: I claim a cutter for cutting the teeth of gears composed of a serics
of cutting blades or teeth, con struuted substantially as described. 45,295.-Railroad Frog.-E. M. Cablkins. Worcester,
Mass., assignor to himself and John J. Powers, Mass., assignor to himself and John J. Powers, I claim the combination of a cast.iron frog, A, with two spring
rails, $G$, wrklng independenty of each other and forming a con
 45,296.-Corset Skirt Supporter.-Lavinia H. Foy (asI claim, first, The combination of the straps, J, J, body, A, and ex.
tensor or skirt supporter, $M$, or the equivalent thereof, substantially Second, The combination with the shonder-straps, J J, body, A,
and extensor or skirt supporter, M, sof aldace orpen ing, K, or the
equivalent thereof, extending down the back, substantially as and equivalent thereof, extending down the back, substantially, or and
for tbe purposes set fortb. 45,297.-Tool Elevator for Lathes.-Wm. Hamilton (as-
signor to himself and Josiah B. Fuller), Chicopee, Mass.:
I claim, irr, The combination of the pieces, A $\mathbf{B}$ and $\mathbf{C}$, or their
equivalents, when constructed and used substantially in the maner and for the purpose descr ibed
Second, The ratchet formed by the notches 0000
$0^{\prime}$
$O^{\prime}$, on the Second, The ratchet formed by the notches 0 o $O^{\prime} O^{\prime}$, on the
pieces, A And $B$, when used in combination w th the pieces, $B$ and $C$,
substantialir in the manner and for tbe purpose described. 45,298.-Fence.-H. B. Myers (assignor to himself,
James A. Ostrom \& H. Crawford), Schoolcraft,
Mich.:
I claim the obluquekerfs, a at or near the top end of the pickets,
E, and the dowelpins, $b$, in therrbottom ends to operate in combin-


[This invention consists in the.employment or use of pickets pro vided with an oblique kerf at or near their top ends and with dowe pins or tenons projecting from their bottom ends to be used in com bination with a wire stretched from one post to the other, and with a longitudinal foundation rail in such a manner that by causing the oblique xerfs to catch over the wire and inserting the dowel pins in on tov and bottom, and a light, durable, and cheap fence is produced.
45,299. - Harness Snap.-Charles H. Palmer (assignor to George Edwards), Newark, N. J. Ante-dated I claim the tongue onstructed as described and the combination
of the spring therewith, in the manner and for the purpose set forth. 45,300.-Bearing for Flyers of Spinning Machines.Blaney E. Sampson, Boston, Mass., assignor to him.
self and George N. Towbridge, Rollinsford, N. H.: I claim the application of the green hide collar or its equivalent. 10 the flyer neckk
as hereinberore speciifed.
I also claim the improved fyer neck bearing as made with the annular chamber, c, for receptlon of the raw hide collar, , d and and with
the opening or passage, e, leading laterally out of the said chamber,
in manner as specified.
45,301.-Paper Envelope.-Richard Shepard, Brooklyn,
N. Y., assignor to Fitch, Estee \& Co., New York
N. Y., assignor to Fitch, Estee \& Co., New York City: 45,302.-Rockers for Furniture.-Abraham Strawbridge (assignor to himself and Michael Sehman), Covington, Ky.
I claim the combination of the dove-taied groove, B, rubber
strips, C, bosses, DD, and screws, bb, all constructed, arrangel and
employed in the manner and for the purpose specified.
45,303.-Composition for Preventing Incrustation in
Steam Boilers.-Alonzo Temple (assignor to himself and J. L. Fitch), Bridgeport, Conn.
I claim the within-described co
ing incrustation of steam boilers.
45,304. - Device for Packing Dry Goods Boxes.-Thomas Webber (assignor to himself and Volney Rusco), Chicago, Ill. Ante-dated Nov. 25, 1864 :
In combination with the foundation, A, and windlass, B, I claim
the chains, , h. hand claw-rods, i, i, ortheirequivalents, arranged and
operating substantially as and for the purpose set forth
45,305.-Water Wheel.-James White, Cleveland, O:Ifo I clain, Arst. The combination of the stone with the hoop, b, sup-
ported by a rim, a, and the tram screws, ported by a rim, a, and the tram serews, c, for the purpose of ad-
justing the position of the bed stone with reference to the shaft, sub-
stantially as shown and described.

 the whee to be larger at the peripher y than at the inner portion of of
anid gates, whereby to use the water with economy and regulate the
power to suit the wort to be done by the stones, as herein shown and power to su
RE-ISSUES.
1.826.-Grain Separator.-Jonathan L. Booth, Rochester, N. Y
 the passage of thegrain in such a manner as to have rikht anain per to
consecutively over and thirough them, and arranged relatively paith别
 forth.
1,827.-Machine for Grinding and Amalgamating Gold and Silver.-W. H. Hepburn \& G. K. Peterson, San Francisco, Cal. Patented April 19, 1864 :
We claim, Arst, The pan, , , with a concave botom in combination
 as described and for the purpose set forth. $\mathbf{P}$, provided with curved
Second, The arrangenent of the shoes, beveled edges and attached to the under side of the muller, H so as
to relation of mulper, for the purpose speciBed.
Third, The ppiral flanges or ribs, $\mathrm{m}^{4}$, on the upper side of the mul-
ler as described. ler, as described.
Fourrangement of the the hand-wheels, o $\mathbf{N}$, thimble, $\mathbf{L}$,
and tubular screen,
purposes as bubstantially has described and forthe use and purposes as berein before set forth.
1,828.-Shirt Collar.-Wm. E. Lockwood, Philadelphia,
Pa., assignee Pa., assignee oy mesne assignments or New York City. Patented July 25,1854 : I claim a shirt collar composed of paper ald muslin, or its equiva-
lent, and polisbed or burnished, substantially as and for the purpose describe
1,829.-Machine for Making Horse-shoes.-Barney Mee, Troy, N. Y. Patented June 9, 1863
claim combining with the rotating male mold
Iclaim combining with the rotating male mold around which the
rod of iron is bent, the vibrating lever for pushing the rod when
bent away from the froot or toe end of the mold, and the sliding bar
with its diagonal with its diagonalg oove for op
stantially as herein described
1,830. -Manufacture of Sugar.-John Findley Riggs, FreI clamm retining sorghum or other sugar by applying a hiquid to dissolve the gum, and removing the same by pres,sure.

EXTENSIONS
18. Wilson, Waterbury, Conn. Pxtended Nov. 12, 1864 :
I claim, ifst, The method of causing the cloth or material to be
sowed in ase wing machine to progress regularly by the joint action
of the surf aces bet ween which it is clamped and which act in con of the surfaces bet ween which it is clamped and which act in con-
junction, substantially in the manner and for the purposes herein Second, I claim holding the cloth or other material at rest by the
necdle or lts equivalent, in combination with the method of causing it to progress rezularly, the whole substantially as herein set forth.
Thro, I claim arrang:ng feeding surfaces, substantially such as are herein specitled, in such relation th the needle as herein set forth,
that they or oone of them slaall perform the otrice of stripping the
cloth or material from the needle asit rises or recedes from it, as herein described.
Fourth, I claim so mounting and attaching one of the feeding sur-
faces to so so other part of the machine, that it may be removed or faces to some other parto of the machine, that it may be remoged or
drawnaway from the ther surface at pleasure, substantially in the
manner and to effect the objects herein set forth.
Sewing Machine.-Allen B. Wilson, Waterbury, Conn. Patented Nov. 12, 1850 . Re-issued Dec. $9,1856$. Patented Nov. 12, 1864 :
I claira. first, The combination in a single machine of these three
following elennents namely atable or rlatorm to support the maa-
terlai to be sewed, holding it for the action of the needie and presenting it properly to the grasp of the reeding apparatus; a sewing
mech anism proper consisting of a zeedle and shuttle, or thelr

 oranted FOR SEVENTEEN YEARS.

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have no doult that the pubic contidence thus indicated las been
fully descrved, as han ve always observed, in all your intercoursc with


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entering upon his new duties, in March, 1859 , he seddressed to entering upon his new duties, in
following very gratifyid letter.
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mony to the able and efficent manner in which you discharged your


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as eminently qualifed to perform the duties of Patent found you faithrua and devoted to the interests of your citents, as well
as eminently qualifed operform the dutienof Patent Attorneys with
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nInety days' natice of their intention

