## 刃ecent gumerican aud fintigu watents.

Improved India Rubber Horseshoe.
Amzi J. Dean, Newark, N. J., aselgnor to hlmdelf and George D. Dean, Amzi J. Dean, Newark, N. J., asfignor to himeif and George D. Dean,
same place.-Tbis is a rubber horseshoe having an upper extending to the same place-Tbis is a rubber horseshoe having an upper extending to the
ankle, and drawnin on the rear part to overlap the heel. A full descrip. ankle, and drawnin on
tion with llustration
ENTIFIC ANERICAN.

Improved Horse Collar and Hames.
Martin Hubbell, Mount Kisco, N. Y.-In this device the hames are plvoted Martin hubbell, matablvat the top, and are connected at the lower part by a plvoted ad-
adjustable latch, which slides, with its forked and notched end, overa gaide

Improved Machinery for Dressing and Finishing Hides and Skins,
John Pullman and John R. Edmonds, Wonersh, England.-This inven-
Hon relates to improved machinery for "frizing," "fleshing," and lon relates to improved machinery for "ifizing," " fleshing," and
"scudding" hides and sking, and for staking and grounding leather. "scudding" hides and skins, and for staking and grounding leather.
The machine consists of a suttable frame, In which is mounted a shaft, on
which a long kntife or a rubber is carried. Motion is imparted to the shaft, which a long knife or a rubber is carried. Motion is imparted to the shaft, posed. The skin is latd upon a travelingapron, by which it is fed between a palr of rollers in proximity to the knife shaft and parallel therewith, the against the knife or rubbers. Means are provided to stretch the skin and keep it Hat when on the apron,
in passing between the rollers.

Improved Meany for Adjusting K nitting Burrs
Campbell, Cohoes, N.Y.-Th1sinvention consiats of anarm wh ports the rocating loop; or stitch adjustiog or discharging burr, of a knitting machine. It is fitted on a vertical screm stud of the permanent arm, and
has a thumb nut below and a jam nut above, together with a steady pin in one of the arms working freely throukh the other, whereby the vertical adjustment of the burr relatively to the needles, and to the other burrs, adjustmens of the
can be eatil and
nently fastened.

## Improved Button Hole Bouquet Holder. Kimball, New York city.-A hooked plate is att

Improved Button Hole Bouquet Holder.
J. Albert Kimball, New York city.-A hooked plate is artached to the under side of the lapel of the coat, jast below the batton hole, through
which the stems of the flowers are to be passed. An elastic strap is then which the stems of the flowers are to be passed. An elastic strap is then passed around thet
hook on the plate.
Improved Blacksmith's Tonks.
Dantel Kunkel, Oregon, Mo.-This is an improved instrument for use for a drill extractor, a blacksmith's tongs, a vise, a wrench, and for various
other uses. It conststs in a pair of pivoted jaws, arranged in sultable frames with a screw shaft, and so comblned that the jawa are worked by
moving the shaft out or in.
Improved Hog Elevator.
Willam Kelly, Susquehanna Township, Dauphin county, Pa.-Two posts
are set in the ground and cross bars are passed through mortses in are set in the ground and cross bars are passed through mortises in them.
The upper sides of the cross bars receive longitudinal bars, a pair of which The onnected with each pair of cross bars. The longitudinal bars are notched unon their upper edses, to recelve the gambrels when suspending
the carcasses. The upper ends of the posts are connected by a beam, in which is a pulley, around which passes a rope; in one end is an eye, to recelve a hook attached to the gambrel. The rope if passed around a bar,
which is pivoted in a mortise a the lower part of the post. With this conwhich is pivoted in a mortise in the lower part of the post. With this con-
stiuction, by raising the outer end of the bar, the end of the rope runs down, so that tits ese may be placed upon the hook. Then, by lowering the free eod of the bar, the animal
turned to rest upon the bars.
Improved Cotton Press.
Whilam H. Walker, Charlestou, S. C. - Che follower
stationary press head, and is connected by rods with the crosshead. The under side of the la + ter is cam-shaped. and rests on friction rollers in the upper ends of segmental wheels, turning on axes, and having the pcwer
applied at the lower end forworking them. Slotted heads connect with the wheels by plos in the slots, the heads betng worked by an engine, to the rod of wblch theyare connected, and the slots are curved so that the
diminution of the throw of the head, which takes place as the whecls ap. prosch the verticallines of the plvots, is to some extent compensated by
the pivots belng forced up said curves.

## Improved Fluting Iron.

Charles Anderson, Boone, 1owa.- The plece 1 an arc of a circle, with grooves therein of any desired form. The lowe
side of the upper portion of the device ts grooved to correspond. In this upper porti,n is a cavity to receive a keated flat fron, so as to allow the heat ifrom the filat Iron to be transmitted to the futer indirectly through a tratum of air, and thus to be tempered.

## Improved Wind Wheel.

George Candee, Paddy's Rua, Ohto. The whaga consist of a frame and
panel, the said panel fittig snugly into sald frame. The ends of the panel are plvotedeceentricallyto the ends of the frame. A welght of sufficlent size is arranged to hold the panel in line with the frame, under ordinary
circumatances; but should the wind greatly increase in force, the pane will turn upon its axis, presenting its edge to the wind, the weight bringing it back to its place as soon as the force of the wind abates. The wings are held against the wind by another weight, and mechanism ts provided so that. should the wind increase in force. stop blocks will be pushed back,
raling the weight. Tue wheel will thus be stopped by an excess of wind, and will start arain automaitcally as the wind abates. There is also a vane hewind increases io force, the outer endo of the wings are forced back wh'ch raises a belt shifter and prevents the machine from betng ditven any faster os the increased veloctty of the wind wheel. Should the wind still
increase in force, the other devices are operated to throw the wing of the Find wheel out of the wiod. As the force of the wind abates, the be shifter dr
chinery.

## Stephen C. Taft, Frankling, Mass.-Triangular brad

the truck frame, the angles of which are down, and drectly belomed to the axies. There is a friction wheel on a shaft, the latter eatering a ben ever cttached to one bracket. This sbaft is free to revolve, one end in the
bent lever and the other in the bracket. A chan wheelis fixed on another bent lever and the other in the bracket. A chain wheelis fixed on another
shaft, which shatt revolves in the brackets. A loose friction chain passes around the chain wheel attracher to the lever. A rod is attached to an arm nected with a windlass saift and wheel. which is under the control of the engineer, by means of which he csnamply the brakes to all the cars in the
train. When the rod is drawn toward the locomotive, the friction chatn 18 ightened on the wheel, which drawi on the bent lever. One end of th friction wheel shaft belng confined in this lever, this movement will raise
the friction wheel, and cause it to come in contact with the axle. The axle being revolved rapldly will cause the friction wheel and shaft to revolve
winding up chains, one of which connects with the brakes of the cars in front, and the other with the brakes of the rear cars. As the wheecs cease
orevolve, the friction wheel will cease to act, and thecars will stop. The back motion

## Improved Treadle.

James W. Staples, Blddeford, Me.-The treadle rod is plvoted to the sew ng machine table, and hangs down to a point a little abore the frame con necting rod, where it is provided with a foot plece. A bell crank is plvoted
at its angle on the connectiog rod, and connected by one arm by means of a rod to the crank, while the other arm is attached to the tresdle rod. The driving palleyturnsin a plane at right angles to that in which the
treadie rod swings, and alinkis emploged for connecting the bell crank with the ro
directions.

Improved Devices for Preventing Children from Falling Ont
of Windows. GabrielKonigsberg, New York city.-Horizontal rods are placed across he lower part of the window, and supported in wooden blocks. Each
lock has a central perforation for the rod, whish 18 cut exactly to the width of the window, the blocks belng placed between the sash-gulding trips. Asuffictent number of blocks and rods are arranged in the window to prevent any possibility of accident or danger to the chlldren looking out. The uppermost block is secured, so as to bind firmly the whole serie of blocks together. By detaching the fastening device or sash, the upper most blocks maybe ralsed and carried on the rod toward the center, 80 tha
the upper rod mas be readlly taken out of the sash strips, and then the therrods with their blocks raised from their connecting blocksand de Improved Call Bell.
Samuel $G$. Levey, New York clty. - This invention
ack for holdiog advertising cards or bills, cannected with a call bell for hotels and the like places, and provided with mechanism for moving it, so cause the rack to shift the breadth of one or more of the cards or bills, to change them about and pr
ated to attract attention.

Improved Telegraph Insulator.
Chas. L. Le Baron, Pensacola, Fla.-This invention consists in a peculiar ecurity and faclity of appliance may both characterize the same device.

## Improved Cooking Lamp.

George P. Houston, Washagton, D. C.- Thie Taveation relates to and consists in means by which alcohol maybe utilized as fuel upon excursions, hunting, or other expeditions, and in localittes or seasons where but little
fire is desired. Tuls is accomplished by means of a folding stand, constructed to recelve the cooking vessel and heater in a novelandconventent
mproved Tool for Charging Piles of Railroad Rails and other Iron into Furnaces.
Smith W . Kimble, Springita, ill.-This invention relates to and consists In meang for charging rallroad rall plles into heating furnaces with conve

Improved Piano Sound Insulating Attachment.
of applying a non-conductor of sound to a plano, so as to prevent tis di-
Improved Pipe Mold Drying and Casting Pit.
Benj.S.Benson, Baltimore, Md.-This improvement relates to the floor of the oven and casting pit, and consista in providing the plates or sections
which compose the same, with a sertes of apertures, peculiarly arranged for the upward passage of the hot blast to act on the plpe moll, both inte. forllyand exterlorily

## Improvement in Metal Pipe Mannfacture

Benj. J. Benson, Balitmore, Md.-The object of this invention is to pro vide an improved plt or oven fordrying plpe molds and casting pipe there tn, together with improved appilances or apparatus connected therewith
for hotsting, carrying, adjusting, sapporting, and loeking or fastening the for holsting,
mold flasks.
1mproved Combined Looking Glass and Photosraphic Frame. Ibaac N. Shatto, Newport, Pa.-An inner frame is hinged to the outer s back, which ing frame has the glass inserted in it, and is provided with with a back and with a glass, between which and the back photographs or records are to be placed. By this construction, the device, when closed
presents no appearance of belng angthing but an ordinary looking glass. Improved Mill Burr
Jobn D. Misess.
whereby a mill burr may be dressed so as to prepare the grain for flouring t the eye of the stone, and thus save a large peicentage of the power
ordinarlly required uoder like circumstances, as well as permit the mill to be cperated by twenty-five per cent less water.

Improved Cream Suet Compound.
John Hobbs, Boston, Nas8.-This invention consists in a noveland valupartlally cburned cream that the product will subsequently granulate and assume a waxy appearance. It will then have the odor and favor of cream,
whilett possesses the property of remaining solld ap to a temperature of While th possesses the property of remaining solld ap to a temperature o

Improved Low Water Indicator.
Cbarles N. Myers, Chicago, Ill.-A float controls the valve by which the odistie or andru is sounded when the water becomes too 10 w . The valive
ood is extended horizontally, and supported in a socket formed in one side od is extended horizontalily, and supported in a socket formed in one side
of the float case, and in the fork of an arm of an elbow lever connected with the float. This forked arm moves or slldes the valve rod, when the
float rises or falls, by engaging fixed collars on projections on the rod. float rises or falls, by engaging fixed collars on projections on the rod.
The rod is als) adapted for application of a device for turning it and grindThe rod is als) adapted
ing the valve to its seat.

Improved Surface Planer.
Willam C. Margedant, Hamilton, Ohio.-This invention relates tosurfac planers, and consists in causing the apron, which prevents the collection of
sharings on the rollers, and the bonnet, which catches the shavings and sharings on the rollers, and the bonnet, which catches the she
throws them on the apron, to serve together as an upper table.

Improved Vebicle Rein Guard.
Willam Levy and William H. Christian, Ashland, Pa. - This invention re ing reing with swingle trees, and many other accldents, may be effectually prevented.

## Improved Machine for Molding Pipe Molds.

Benjamin S . Benson. Saltimore, Md.-This invention is an improvement
n the machine for preparing the molds for casting metallic plpes, for on the machine for preparing the molds for casting metallic plpes, for
for which letters patent No. 33,178 were granted, September 3. 1361. The mprovement relates to an adjustable counterbalance for the flask holder
whereby an equipoise is malntained daring the vertical movement of the latter; also, to the arrangement of radial revolving fingers in the eand
hopper, to act in regular succession, to throw a constant and equable tream of sand into the flask; also, to a revolving cone for equalizing tbe distribution of sand within the hopper; also, in a spring balance or welgh
ing attachment for determiniog, in advance, the weight of the molds. lmproved Fertilizing Compound.
Benjamin G. Carter, Oallands, Va.-This invention relates to fertilizir compounds that are intended to take the place of stable manure, ylelding to be defictect. It contains, io a cheap and easily traneportable form, al he ingredeuts wnich give value to stablemanure.

Improved Combined Ventilator and Chimney. Walter R. Hinkley and Charles J. Dibrell, Dallas, Tex.-This invention conslsts of an iron-llned inner fue, secured witbln an outer casiog with
uitable bottom and top perforations for establishing a ventlatiog air car rent around the flue. The casing is securely attached to the celling and fue is set into the upper end of the tnner flue, and provided with rain-pro ecting caps or sheds at its top and above the upper perforated end of the veotllator.
Edward A. Tattle, New York city. - This inverition consists of the moving device for operating the fans of a register. It forms parto of the register ront or top, and is fitted, arranged, and secured in the stationary part by
ugs in front of and behind flanges on which the movable part slides to work the fans. The sald lugs and the flanges are so contrived that the part subject to wear are hidden from view. The sald moving part is connected With the fans, so that, when all parts are adjasted in place, its escape through the notches, by which the lugs going behind the flanges are intro
duced, is prevented.

Improved Lid for Closing Gas Retorts, Sugar Filters, etc.
James Dunselth, New York clty.-This James Dunselth, New York city.-This is an improved lid for gas retorts,
uagar fllters, and otherv essels that require to be closed airtight, and in uch a way that they can be readily opened and closed, as rtquircd. By adhere construction, should tar, colee, or other substance Ret upon and
and of the vessel, a few turns of the lid baik aod forth will bring sald lid to to sear. and the asid substance, instead of dong any
barm, will bea positive benefic by serving as a seat to the lid. Afterward barm, will be a positive benefl by serving as a seat to the lid. Afterward
by turning the lid in the direction to cause the rollers to roll up inclined oy turang the itd in the direchor to cause the rollers to roll up incine eads, the ild will be forced firmly into its seat. This construction also as to always shut alrtight.

Improved Corn Planter.
James W. Simpson, Dry Ridge, Ky.--Tbe Wheels carry the axle with them n thetr revolution when turning forward, and allow the axle to be station-
and hich as the sald axle revolves, strike against a bar and push it formard. In the upper arms of bars, connected with the bar last mentloned, ar ormed holes to contain seed enough for a hill, and in such positions as to out of sald hoppers, and over holes in the plat orm as the bar moves for ward. As the seed drops through the holes in the platiorm. It is recetved ioon lower arms of the second bars, and held untll the first bar moves back, When it drops to the ground. The driver, from his seat, by operating a
lever, can raise the furrowing plows from the ground when desired. The cever, can ralse the furrowing plows from the ground when des:red. The
covering plows are placed a little in the rear, and at one side. so as to an the furows opened and cover the seed. The covering plows may be ralsed rom the ground with and by the furrowing plows. Small V-giaped barrows
redrawn in the rear of the covering plows. The same movement of the lever ralses all the plows and the harrows from the ground. By operating another lever, the axle may be torned by hand to adjust it wilh respect to
the dropplng device, and to the wheels; and by means of a third lever, the the dropplng device, and to the wheels; and by means of a third lever, the
dropping device can be operated by hand, or held from operating, as may dropping de
oe desired.

## Improved Cotton Press

John H. Slmonson, East Norwich, N. Y.-The followersare fitted to sllde extending throngh slots. to be connected to racks for belag ralsed and lowejed by gears. The apper one has the short projections extendiog through slots, to be connected to racks which are also operated by the gears. The racks move the headsin opposite directions by one and the same movement of the wheels. The latter are geared with the drivigg shaf ts by a palr of ec-
centric toothed wheels, so adjusted that the leverage of the power 1 creases progressively as the work progresses and the resistance increases. Tbe driving shaft is worked by a hand lever, pawl, avd a ratchet wheel. The jections of the other follower conoect with racks by sliding under bocks, oy which the follower is pulled down. They have a hook projecting over the sald hooks, by which the follo wer is ratsed when the racks are forced up. The racks aleo have a hook, by whtch they engage with the cross bars
when ralsed up to be held properly for the projections to engaga with them when the follower is moved back orer the press when it 10 filled.

Improved Spring Rocking Chair.
Stephen Fallon, Brooklyn, N. F ., assignor to himeelf and Joseph A. Hodgeds, of same place. The base frame conststs of two side frames con-
nected at their upper middle parts, add at their rear parts by rourds. To and thetr other ends are attached to the round. the ends of which work in sockets in the frame. Thus the eprings form the ools connection bet ween the seat and frame, of that the seat 1s both supporitedand rocked on them.
By withdrawing a pin and turning the round, the tension of the epring By withdrawing a pln and turning the round, the tension of the springs
may be increased or dimintehed, as desirec.

Improved Flutiog and Smoothing Iron.
Benjamin F. St. John, Shelbyville, Iod -The handle has $\varepsilon$ base with a
nange, which latter surrounds the smaller upper section of the tion wbrn a hole in tbe front of the fange and enters a hole in the upper section. At the rear end, the handle is attached by means of a pin in the upper section

Improved Sewing Machine.
John Spetrs. Xew York city, assignor to hlmeif and Henry F. Cox, sawe place.-This is a novel means for operating the looping hook of that class in the mechanism for imparting a rocking lateral movement to the looning direction

Improved Paper Bag Machine.
Truman Hotchkise, Stratford, Conn.-This machine is for making eatche bottom bags of various sizes. The paper is drawn down over the gulde to a table in front of the forming roller and the foldiog roller. One margin
to of the paper strip also passes under the pasting roller to recelve the paste,
by which the edges, jotnt in the forming of the tube, are $\ddagger$ asted. It also passes between the former ard folder and under the preseer bar. As soon passes between the former ard folder and under the preseer bar. As soon
as the end of thepaper strip comes to a gage, it stops and is cut off oy the fall of a cutter. The fulders then commence to turo, and at the same thm
the pressure bar spring down and presses the paper againat the forming the pressure bar springs down and presses the paper against the forming
roller, so that it will be crawn in between the folling rollers and folded roller, so that it will be drawn in between the folding rollers and folded.
By the same operation, the margin of the paper at the knife is drawn uader By the same operation, the margln of the paper at the knife is drawn uader
the pastlog roller on the cutter and pasted, for securing the folds of the diformed the tube and untted the edges, thes rest,whlle the sliding hor zontal end folders go forward just in front of the end of the former, and foldin two sides of the extension of the tabe besond the forper to form
tbe bottom. Then the vertical sl'ding folders move forward and fold in tbe bottom. Then the vertical sl'ding folders move forward and fold in
the other two sides, and complete the bag. An iogentous device, lastiy, che other two sides, and complete the bag. An togentous derice, lastiy
fattens the bag dowa at the sides. and folds the botiom down fistwise on he upper side, so that it win
ut injury to the botto

Improved Corn Husking Machine.
-This invention relates to means onn may not only be denuded of the shuck, but at the same time relieved tem may bedlscharged separately. the leaves befnr, left in a state ready to be used for mattrasees and kindred purposes.

## Improved Floor Clamp.

James Carille, Springfield, Mass., assignor to himself and J. R. Haskins, same place. -This invention conelsis of a pair of ar'plng levers plvoted to
a hand lever, or to a pressure plate or board $u n 11$, for acting upon the edge of the flooriog. It is arranged in connection with cam grooves in a plate also attached to the lever, sothat the gripers belng pluced on the jolst with he potnts near the lower edge, and the hand lever above, wit $b$ the prissure
late against the fooring, and thehand lever betngpressed forward in th Irection to clamp the fioorlag together, zuch action will cause the griper o bind frmly against the jolst, and hold for a fulcrum for twe hand lever after pressing the flooring.

Improved Stagivg Clamp
Charles E. Richards, Orange, Mass.-The clamps are made of tron rod one half finch, more or less, in dismeter. The bodies are of a length equa ass across the edges of the same and the sides of the poles. Tit angles to again at right angles to overlap the outer side of the poles, and their end are bent inward at right angles, and are made sbarp so as to be driven into
the said eater side of the poles. Thes are also arronged dlagonally acios the inner side of the poles, and their ends are bent inward in opposite directlons to overlap theouterside of the poles from the opposite sides, so that the strain will come agalnat the sald poles. The ledger boards are kept from slipping in the clamps by wedges. By this construction, the
soafold is put up without the use of nails.

