from a wood veneer out after the mantle plane of a cone around the cone B, adapted to receive the leather tip and carries at its bottom end, the handle $D$, provided with the load plate $C$, substantially as
described.

## No. 35,321. Hinge Mortising Machine. (Machine a mortaiser les charnières.)

The Storms Manufacturing Co., Chicago, Illinois, (assignees of James Alexander Mackenzie. Minneapolis), all of the U.S. A.,
3rd November, 1890 Claim.-lst. In, $1890: 5$ years.
tion, with a frame having for forming hinge mortises, the combinastock for the front knife, lateraling handle, of a stationary knife knives, and a sliding knife, laterally adjustable stocks for the side ed to be projected between the side in ways of the frame and adapted. 2nd. In a device for forming hinges, substantially as describ- the combination with the frame having a stationary stock for holding the front knife, one or more movable stocks for holding the side knives, and a removable or moriding movable stocks for holding the side knives, and a remorstantially as described. 3rd. In a hinge for moviser, the combin knife, subwith the cutting knives, of a depth gage having bearing feetinclined
wrom from front to rear, and an inclined cross bar fitted to an inclined
wny of the wny of the frame, and secured thereto by serews passing through
elongated and depths may be cures in the cross bar, whereby mortises of different tiser, the combing substantially as described. 4th. In a hinge morhaving its bearination, with the operating knives, of a depth gage vice is adapted to feet inclined from front to rear, whereby the deside, substantion to cut a mortise thicker at its outer than at its inner binationstantially as described. 5th. In a hinge mortiser, the comin ways in the front and side knives, and a sliding knife movable in ways in the frame, of an operating lever for said sliding knife pivoted between its ends upon a fulcrum rod, and adapted to be
moved moved laterally along said rod to take its lower end out of engagement with the sliding knife, substantially as described. 6th. In a hinge mortiser, the combination, with the front and side knives and a sliding knife, movable in ways in the frame, of an operating lever
for said side for said sliding knife pivoted between its ends, upon a fulerum rod,
and adapted and adapted to be moved laterally along said rod to take its lower
end out of end out of engagement with the sliding knife, and a ta sping adapted
to hold to hold said lever normally in engagement with the knife, substantially as described.
No. 35,3:2z. Fire Alarm Regulator.

## (Regulateur pour avertisseurs d'incendie.)

Clarence J. Spike, Hedley V. McLeod and Arthur C. Hawkins, all of Halifax, Nova Scotia, Canada, 3rd November, 1890 ; 5 years. of a diaim plate and ita electric fire alarm regulator, the combination and lever plate and its index arm, connected by the cog wheels $a, a^{1}$, or other corresponding signals indicating an alarm, and with means for transmitting such signals automatically, substantially as described. 2nd. In such signals automatically, substantially as deof a dial plate $l$, and index arm $c$, cog wheels $a, a^{1}$, arm $f$, connected
to slide to slide,$j$, and insalated birn $c$, cog wheels $a, a^{1}$, arm $f$, connected
wheels and Wheels and the push button $p^{1}$, and its mechanism, substantially of
described described. 3rd. In an eleciric fire alarm regulator, the circuit the cylinder travelling on an insulated bar $k$, and arranged between the cylinder $d$, and the frame of the regulator, in combination with tric fire nlarm frame, substantially as described. 4th. In an elecand travaling regulator, the circuit breaker $j$, hinged to a sleeve $l$, the projeling on the insulated bar $k$, so as to be operated upon by $d$, and its pins of the cylinder $d$, in coinbination with the cylinder解 described.

## No. 35,323. Pressure Regulator.

(Regulateur de pression.)
The Consolidated Car Heating Co. (assignees of James Finney McElroy), all of Albany, New York, U.S.A., 3rd November, I890; 5
years. Claim.-1
age, a balanced - In a regulating-valve, a casing having a steam-pass-
means of means of a spring ve controlling the inlet of the steam therein, by
chamber, chamber, havingg-controlled diaphragm located in a diaphragm
passage, passage, substantially as described. connecting it with the steam
casing having a regulating-valve, a casing having chainbers $N$, and 0 , separiated by the partition $M$,
having an aperturg having an aperture $P$, at its lowest point, substantially partition $M$, $M$,
3rd. $I_{n} a_{\text {a }}$ regula a steam and diaphragrve, the combination, with the casing having only, of the springragin-chamber connected by a restricted opening the stem K. the sockentrolied diaphragm, adjustably connected to the valve-stem $S^{\text {socket-piece } 0 \text {, having lever } R \text {, pivotally connected with }}$ per valve $d$, lower adjustable ture a, screw-threaded portion e, updescribed.
No. 35,324. Manufacture of Iron and Steel.
Hiram Gilbert Bond, city of ${ }^{\prime}$ du Jer et de l'acier.)
vember, $1890 ; 5$ years. Claim. -The method
ing or refining iron ore, or crude, or ${ }^{\text {in }}$ as herein described, of smelting it in the presence of the salts of bariug iron, which consists in treat-
No. 35,325. Closet Cistern. (Réservoir de latrines.)
David Lancaster Dwinnell and Miller Bros. \& Toms, all of Montreal, Quebec, Canada, 3 rd November, 1890; 5 years.
Claim.-1st. In water closet cisterns, a depressible and submerg-
ible siphon outlet. 2nd. In water closet cisters, having siphon out-

Iets, a stand pipe, a portion of which is normally above the water line, and depressible beneath the same, for the purbose set forth. 3rd. In water closet cisterns, provided with siphon outlets, a stand pine having a portion of its length collapsible, for the purpose set forth. 4th. In water closet cisterns, the combination of a stand pipe, the upper end of which is held normally above the water line, and depressible beneath same, a bood or cap suspended over such pipe, and means for suspending such hood and elevating and depressing said pipe, as set forth. 5th. In water closet cisterns, a
siphon outlet having a portion of its length flexible for the purpose siphon out
set forth.

## No. 35,326. Grain Separator. <br> (Séparateur des grains.)

William Lorenzo Gibson, Minnville, Oregon, U.S.A., 3rd November, 1890; 5 years.
Claim.-1st. In a grain separating device, the agitating rollers having spiral flanges coiled oppositely from their central portions, and provided at their ends with spiral flange-sections coiled oppositely to the spiral flanges, the ends of which they adjoin, substantially as set forth. 2nd. In a grain separating device, the agitating shafts having inclined ovoid disks, in counbination with the oppositely inclined disks mounted at the ends of said shafts. 3rd. A grain separating device, comprising a series of pairs of shafts having
spiral fanges and inclined disks, and provided at their ends with opspiral fanges and inclined disks, and provided at their ends with op-
positcly coiled spiral flange-sections and oppositely-inclined disks, positely coiled spiral flange-sections and oppositely-inclined disks, substantially as and for the purpose set forth.

## No. 35,327. Manufacture of Vinegar. <br> (Fabrication du vinaigre.)

Aurele Reather and Ferdinand Ouézieme Lqvigueur, both of Moatreal, Quebec, Canada, 3rd November, $1890 ; 5$ years.
Résumé.- Un système de générateurs a cioubles compartiments A et $B$, separès par la cloison $a^{1}$, traversée par les tubes $b, c, d$, en combinaison avec le baril $E$ contenant leffiltre a charbon $u$ de la liqueur binaison avec le baril E contenant lelfiltre a charbon $u$ de la liqueur
alcoolique avant son entrée dans le baril $D$, ainsi que le feutre $r^{1}$ et alcoolique avant son entré dians le baril D, ainsi que le feutre $r^{2}$ et
les tubes de communication $o^{1} p, q, z$, en combinaison aussi aveo les les tubes de communication $o^{2} p, q, z$, en combinaison aussi ave,$h$, $i$,
barils $D$, munis des tubes speciaux de communication $e, f$ et $~$ barils D, munis des tubes speciaux de communication e $f$ fet $o, h$. in à deux compartiments $M$ et H , à oloison médiane $V$ et à soupapes $\mathrm{c}^{1}$, $h^{1}, u$ avec ouverture $b^{1}$ et les tubes de communication $d^{1}, a^{1}, \boldsymbol{m}^{2}, m^{3}$,
$m^{4}$. le tout tel que ci-dessus décrit et pour les fins sus-mentionnées.

## No. 35,328. Universal Joint Coupling for Pipes. (Joint universel de tuyau.)

Joseph Walker, Clark's Green, Pennsylvania, U.S.A., 3rd November, 1890; 5 years.
Claim'-lst. In a pipe coupling, the combination, with the pipe having a semirspherical enlargement $B$, at its end, of the cap $C$, and ring D, fted to the contour of said enlargement, and the cap holding silid cap C, and ring $D$, in position, substantialiy as desorib ed. 2nc. In a pipe couping, the combination, with the pipe having the semi-spherical enlargement or heal, of the cap C, seated against the enlargement $B$. the ring $D$, shapel to conform to said enlarge-
ment, the packing $F$, and the screw cap E. euolosing ring $D$ and ment, the packing F, and the screw cap E. endolosing ring
united to cap C , substantially as described. 3rd. In a pipe coupling. united to cap C, substantially as described. 3rd. In a pipe coupligg. ment or head, of the cap C, seated agilinst the enlargement B, ring $D$, shaped to conform to said enlargement, cap $E$, enclosing ring $D$, and united to cap $C$, packing $F$, ring $G$, and means for adjusting it, substantially as desoribed.

## No. 35,329. Car Coupliug. (Attelage de chars.)

George Washington Powell, Sunny South, Alabama, U. S. A., 3rd November, 1890; 5 years.
Claim.-1st. In a car coupler, the combination, with a draw-head provided on its lower edge with a longitudinal slot, of a coupliag latch pivoted in said draw bead, hangers, a transverse shaft a cam a vertical lever secured to the end of the transverse-shaft, and exa tending upward above the roof of the car, and a laterally-extending guideway through which said lever passes, substantially as set guideway through which sar, the combination, with a draw-hend forth. 2nd. In a car coupler, the combination, with a draw- ond spring pressed coupling-latch pivoted in said draw-head and working in the slot, said latch terminating in a hooked end adapted to en gage the coupling-link, bangers, at transverse shaft having bearings in said hangers, said shaft formed or provided with a cam, a vertica, lever secured to the end of the cransverse shaft and extending up-
ward above the roof of the car, and a laterally-extending guideway ward above the roof of the car, and a laterally-extending g
through which said lever passes, substantially as set forth.

## No. 35,330 . Vehicle. (Voiture.)

Cornelius John Sullivan, Bar Harbor, Maine, U.S.A., 3rd November, 1890; 5 years.
Claim.-1st. In a vehicle of the class described, the combination, with a seat, of a pair of oppositely arranged Y-shaped spring standards for supporting the same, each of the standards consisting of opposite strips bolted together at their lower ende to form a shank,
and diverging toward their extremities and secured to the seat, substantially as specified. 2ad. The combination, with one of the Ubraces for connecting the buckboard and driver's platform. of a pair of $\mathbf{Y}$-shaped spring-metal standards arranged in line with each other and at the centre of the seat, each standard consisting of a pair of strips bolted together near their lower ends to form a shank, and strips
diverging after they leave their points of connection, and having its

