No. 37,941. Door Securer. (Arrête-porte.)

Henry W. Chase, Wittenburg, Wisconsin, U.S.A., 10th December, 1891 ; 5 years

1891; 5 years.

Claim.—1st. A door-securer comprising a plate provided at its lower end with a lip adapted to fit in the crack at the bottom of the door, a lever having one end fulcrumed on the plate, and a brace having its outer end adapted to engage the floor and having its inner end pivoted to the lever, substantially as described. 2nd. A doorsecurer comprising a plate provided at one end with the and having longitudinal flates, a lever having a longitudinal opening and having one end pivoted between said flanges, and a brace adapted to engage the floor and having one end pivoted in the opening of the lever, substantially as described.

No. 37,942. Machine for Holding Lasts.

(Machine pour tenir les formes.

John Grant, Windsor, Ontario, Canada. 10th December, 1891; 5

Claim.—1st. An improvement in machines for supporting lasts, consisting of the heel supporting arm K, the adjustable toe supporter, and the spring strained holding strap, operating together to hold the last firmly as described. 2nd. In combination with a last support, a removable block of wood K, to which the upper of the shoe may be temporarily fastened as described.

No. 37,943. Horse Shoe. (Fer à cheval.)

Arthur Bissonnette, Montreal, Quebec, Canada, 10th December, 1891; 5 years.

Resumé.—10. Dans un fer chirurgical, le ressort d'expension A. B. C. tel que decrit et pour les fins indiquées. 20. Dans un fer chirurgical le mode d'insertion et de fixation de ce ressort entre le sabot et le fer en e.f. et retenu par les points B. C. dans la corne du sabot tel que décrit et pour les fins indiquées.

No. 37,944. Combined Grading, Separating and Dust Collecting Machine.

(Appareil de régalage, émotteur et aspirateur de poussière combinés.)

Barnard and Leas Manufacturing Company, (assignees of Charles A. Barnard), all of Moline, Illinois. U.S.A., 10th December, 1891; 5 vears.

Barnardi, all of Motine, Hinois, U.S.A., 10th December, 1891; a years.

Claim.—1st. The combination of the hopper, the vertical air trunk beside the same, the dust chamber below the trunk, the settling chamber above an it oone side thereof communicating with the dust chamber above and it one side thereof communicating with the settling and dust chambers, a trough in the dust chamber for receiving the material falling through the trunk, and a fan, all substantially as specified. 2nd. The combination of the air trunk, the dust chamber below the same communicating therewith, a settling chamber communicating with said trunk and having a receiving bin at its end opposite the trank, and a regulating valve at top of said bin, and a fan chamber and ian for creating an endless air current through the dust chamber, trunk, and settling chamber, substantially as described. 3rd. The combination of the settling chamber, the bin below the bottom thereof, the traveling brushes in the mouth of the chamber, and the series of regulating valves in the mouth of the bin for aing part of the floor of the chamber, with the dust chamber, fan chamber, fan and air trunk, substantially as described. 4th. The combination of the hopper, the vertical air trunk be settling chamber above and to one side thereof communicating with the dust chamber above and to one side thereof communicating with both dust chambers, and means for removing the matters collected in the chambers, and means for removing the matters collected in the chambers and bin, substantially as specified. 5th. In a combined grader separator and dust collector, the vertical air trunk, a dust chamber below the same, a trough in said chamber adapted to receive material falling through said trunk, a settling chamber receive material falling through said trunk, as attling chamber receive material falling through said trunk, as attling chamber. combined grader separator and dust collector, the vertical air trunk, a dust chamber below the same, a trough in said chamber adapted to receive material falling through said trunk, a settling chamber above and to one side of the trunk, communicating therewith, a receiving bin below said chamber, the valves in the top thereof forming part of the floor of said chamber, a second dust chamber below said bin communicating with the settling chamber. a fan chamber communicating with both dust chambers, and a fan therein, substantially as set forth. 6th. In a combined purifier, grader and dust collector, the hopper, separating trunk beside the same, the dust chamber below the trunk, the receiving trough therein, the settling chamber above and to one side of said trunk, a pair of bins at the opposite end of and below said settling chamber and receiving material deposited therein, the valves for said bins, a second dust collecting chamber below said bins communicating with both dust chambers, the fan chamber communicating with both dust chambers, the fan, and means for removing deposited matters from the chambers, bins and trough, all substantially as and for the purpose described.

No. 37,945. Combined Separating, Grading and Dust Collecting Machine.

(Appareil de régalage, émoteur et aspirateur de poussière combinés.)

Barnard and Leas Manufacturing Company, (assignees of Herman A. Barnard and Charles A, Barnard), all of Moline, Illinois, U.S.A., 10th December, 1891; 5 years.

Claim.—1st. In a combined middlings purifier, grader and dust collector, the combination of a separating device having a series of air passages across which the material must pass, means for dis-

charging the purified material collected in it, a settling chamber for collecting the lighter middlings blown out in the process of purifying, and two dust settling chambers each provided with devices for disclarging the material deposited therein, with a fan and mechanism for imparting motion thereto, substantially as described. 2nd. The combination in a separator and dust collector combined of an air blast separating device and two dust chambers communicating with said device, for collecting the dust drawn up by the air current with a secondary air passage connecting the two dust chambers, and means for creating a circulation of air in said passages whereby a part of the dust luden air can be returned to the first dust chamber save and the same upon which themselves again, substantially as described. 3rd. Secondary of the material, edges in the same upon which themselves the said the said boards, two dust collecting chambers below said deposit chamber and hopper respectively, a fan chamber communicating with said dust chamber, and a fan, whereby a continuous air current is created through the said chambers and between said boards, with conveyors for removing the material from the said receiving trough, denosit chamber, and dust chambers, substantially as described. 4th. The combination in a combined purifier, separator, and dust collecting chambers, a fan chamber communicating with said chambers and between said boards, with conveyor for two dust collecting chambers, as a fan chamber above one dust chamber through which the material is passed to be cleaned, a deposit chamber and passages, substantially as described. 4th. The combination in a combined purifier, separator, and dust onlease the said receiving with a said chamber and passages communicating with the other chamber, and a fan for creating a continuous current through said chambers and passages communicating with the other chamber said chambers and passages and conveyor for the machine communicating with chamber for the purifier of the machine commun

No. 37,94**6**. Current Indicator.

(Indicateur de courant.)

Reliance Electric Manufacturing Company, Waterford, Ontario, Canada, (assignees of Frank Bankson Rae, Detroit, Michigan, U.S.A.,) 10th December, 1891; 5 years.

U.S.A.) 10th December, 1891; 5 years.

Claim.—1st. A current indicator consisting of a magnet, the coils of which are included in the circuit to be measured, a tapering core piece for the magnet, and a pivoted armature embracing the tapering core piece and carrying a pointer, substantially as described.

2nd. A current indicator consisting of an electro-magnet, the coils of which are included in the circuit to be measured, a semi-circular core piece for said magnet, tapering toward its extremely, and an armature having a ring embracing the tapering zore piece and carrying an indicating point, substantially as described. 3rd. A current indicator consisting of an electro-magnet, the coils of which are included in the circuit to be measured, a semi-circular core-piece tapering from its base to its free end, a plate connected to the base and extending toward the free end of the core piece, an armature pivoted to the plate and carrying a ring shaped piece of soft iron embracing the core piece, and an indicator attached thereto, substantially as described. 4th. A current indicator consisting of an electromagnet, the coils of which are in the circuit to be measured, a semi-circular core piece gradually tapering toward its free end, a senicircular core piece gradually tapering toward its free end, a senicircular core piece gradually tapering toward its free end, a soft iron plate secured to the base of the core, adjacent to the coils, an armature pivoted in said soft iron plate, a ring of soft iron secured to the armature and embracing the free end of the core, a pointer secured to the ring, and a segmental scale for the pointer, substantially as described.

No. 37,947. Hand Harrow or Rake.

(Herse à main ou rateau.)

Harry Daniel McConn, Fort Madison, Iowa, U.S.A., 10th December, 1891; 5 years.

Claim.—1st. A rake or hand harrow consisting of a handle carrying a cross bar, pivoted levers carried upon the cross bar and adapt-