specified. 3rd. The side bars F having, bolted to their bottom sides, a spring steel plate G, in combination with the spring steel plate E bolted to the bolster D, substantially as and for the purpose specified. The reach I K having a top reach place H secured to it by the bolts J and L, arranged substantially as shown and for the purpose specified.

No. 19,532. Flour Dressing Machine.

(Blutoir à Brosses.)

John Riddell, Packenham, Ont., 9th June, 1884; 5 years.

Soun Riddell, Packenham, Ont., 9th June, 1884; 5 years. Claim.—1st. In a flour dressing machine, the sieve B suspended by the flat bars a from the sliding bars b, arranged to slide transversely in the frame A. substantially as described. 2nd. In a flour dressing machine, the sieve B suspended from the sliding bars b, which are arranged to run endways on the rollers or pulleys c, substantially as described. 3rd. A flour dressing machine provided with the eccentric shaft E working in the arm F, which is attached to the sieve B, and the crank and connecting rod l, all of which are for the purpose of imparting to the sieve or shaker B a combined longitudinal and transverse motion over stationary brushes, substantially as shown and described.

No. 19,533. Watch. (Montre.)

The Fahey's Watch Case Company, (assignee of James Lamont,) Sag Harbor, N. Y., U. S., 9th June, 1884; 5 years

Claim.—1st. In a watch case, the combination of an outer case, a suitable pendant or stem attached to an inner case, an inner case hinged to the outer case upon an axis or pintle parallel with the pendant or stem and adapted to be opened on said hinge, substantially as described. 2nd. In a watch case, the combination of an inner case for carrying the movement, a suitable pendant or stem attached to the inner case, and an outer case composed of two parts secured together, the outer and inner cases having a hinged connection upon an axis or bintle parallel with the stem or pendant, whereby the inner the stem or pendant, whereby the inner the stem or pendant, substantially as described. Claim.—1st. In a watch case, the combination of an outer case, a

No. 19,534. Electric Block Signal for Railways. (Bloc de Signal Electrique pour Chemins de Fer.)

Stephen J. Swayze and John C. Lane, Sag Harbor. N. Y., U. S., 9th June, 1884; 5 years.

June, 1884; 5 years. Claim.—1st. The signal-board E adapted to be automatically elevated by the passage of a train, the clutching and retarding mechanism D and the fan C, or its equivalent, in combination with the adapted a, lever b, spring c and switch G, connected as described and aspect to be opened and closed by the signal-board E, substantially to specified. 2nd. In a signalling system, the switches G connected to the main wire f by wires f and a, and adapted to be opened and closed by the signal-board E, in combination with the magnets a and lease the other, substantially as described.

No. 19,535. Hot Air Stove. (Calorifere à Air.)

Peter H. Sims and Philip Hohmeier, Waterloo, 9th June, 1884; 5

Claim.—1st. A self-feeding coal hot air stove, consisting of an an-

 E^1 , in combination with the casing E^2 and the cylinder E, supported by the flunge e, tubes D^1 , flunge d and fire-pot D, all substantially as described and for the purpose set forth.

No. 19,536. Hat Sizing Machine.

(Machine pour Feutrer les Chapeaux.)

Nathan Harper, Newark, N.J., U.S., 9th June, 1884; 5 years.

Nation Harper, Newark, N.J., U.S., 9th June, 1894; 5 years.

Claim.—1st. In a hat-sizing machine, the combination of an endless felting belt travelling on pulleys or rollers, and a co-operating felting surface adapted and arranged to enable the hat-rolls fed thereto to traverse continuously the entire circuit of said surfaces as many times as may be desired before removal. 2nd. In a hat-sizing machine, a felting-bed having an additional opening at the opposite and or side to that at which the hats are usually introduced, said opening being provided with an adjustable life or connection rises a desired to surfaces adapted and arranged to enable the hat-rolls fed thereto to traverse continuously the entire circuit of said surfaces as many times as may be desired before removal. 2nd. In a hat-sizing and ching, a felting-bed having an additional opening at the opposite end or side to that at which the hats are usually introduced, said opening being provided with an adjustable lid or connecting piece adapted to close the same. 3rd. In a hat-sizing machine provided with an adjustable lid or connecting piece adapted to close the same. 3rd. In a hat-sizing machine provided with an adjustable lid or connecting piece adapted to close the same. 3rd. In a hat-sizing machine, the combination of the discharge of the that rolls as additional to the control of the felting surfaces before removal. 4th. In a hat-sizing machine, the combination of an endless felting belt travelling on pulleys or rollers, with a stationary co-operating felting-bed, consisting of a yielding flexible apron or blanket entirely surrounding said felting belt. except at the joint where the hat rolls are introduced to said felting-belt. 5th. In a hat-sizing machine, the combination of pressing bands, consisting of metallic chains and springs-arranged to operate in connection therewith, for the purpose of results and springs adapted to uplife or neutralize the weight of said rollers or slats, and thereby diminish the pressure of said rollers or slats and springs adapted to uplife or neutralize the weight of said rollers or slats, and thereby diminish the pressure of said rollers or slats upon the felting fabric, as set forth. 7th. In a hat-sizing machine, the combination of the felting surfaces. 8th. In a hat-sizing machine, the combination of the felting surfaces. 8th. In a hat-sizing machine, the combination of a feeding surfaces. 8th. In a hat-sizing machine, the combination of a feeding surfaces. 10th. In a hat-sizing machine, the combination of a feeding surfaces. 10th. In a hat-sizing machine, the combination of a travelling to the surfaces. 10th. I

No. 19,537. Hat-Sizing Apparatus.

(Appareil pour Feutrer les Chapeaux.)

Nathan Harper, Newark, N.J., U.S., 9th June, 1884; 5 years.

Claim.—1st. In a hat-sizing machine, a felting chamber having more depth or space at or near its centre, as at q, than at or near its sides or edge, as at r, said chamber being constructed and adapted to cause the hat-rolls while felting to have both a rotary motion on their axes, and a progressive motion at right angles thereto, substantially