#### No. 29,960. Manufacture of Merchantable Articles from the Refuse of Pe-(Fabrication d'articles troleum Gas, de commerce, des rebuts du gaz de pétrole.)

John M. Sparrow and Joseph H Farr, Toronto, Ont., 9th October, 1888; 5 years.

Claim.—The within described process for producing a merchantable article from the reluse of the perioloum used in the production of illuminating gas, the said process consisting in passing super-heated steam through the petroloum refuse, substantially in the mander and for the purpose specified.

## No. 29,961. Vehicle Running Gear.

(Train de voiture.)

John J. Black, Cleveland, Ohio, U.S., 10th October, 1888: 5 years.

Claim.—1st. The springs D, D, having their rear ends joined together by cross-bar F forming a continuous support, substantially as described. 2nd In running goar for vehicles, the combination, with axle A and body B, of the springs E, D, joined by cross-bar F, and connected to bedy B by king-bult H, substantially as described. 3rd. In combination, axle A having shalls C, C rigully attached, and the springs D. D pivotally attached, substantially as described.

#### No. 29,962. Lamps. (Lampe.)

Thomas Walsh, afontreal, Que., 17th October, 1888; 5 years.

Thomas Walsh, Montreal, Quo., 17th October, 1883; 5 years.

Claim.—.st. The combination in a coal oil lump of the chamber d.
pipe i having perforations l, cup or jacket e having perforations f,
tube o forming space r, nozile bi having openings et formed in it, and
the tube o, and having passages ki, chamber is, ferrule fi, flange oil and
burner q, the whole constructed and arranged substantially as and
for the purposes set forth. 2nd. The e-mbination in a coal-oil lamp
of the chamber d, pipe i having perforations l, pipe as provided with
a stop-valve, as described, cup or jacket e having perforations f, tube
o, forming space r, nozile bi having onenings et formed in it, and extending through the tube o, also having passages ki, chamber it, forrule fi, flange at, and burner q, the whole constructed, arranged and
operating substantially as described. 3rd. The combination in a
coal-oil lamp of the pipe i having vent at its upper end, chamber di,
openings et, nozile bi having passages ki, tube oil forming space r,
and having openings et continued through it, ferrule fi, flange at,
and burner q, the whole constructed and arranged substantially as
described.

## No. 29,963. Wearing Apparel.

(Support de jupon.)

Fannie St. Clair, New York, N. Y., U. S., 10th October, 1888; 5

Claim.—The combined skirt and protector consisting of a skirt or supporting bands A, having means by which it is supported from the waist, and the protector forming an extension to the skirt or bands, having means by which its lower edge is supported on the shirt or bands, and the sliding cord or buttons by which the protector is supported.

# No. 29,964. Waggon Spring. (Ressort de wagon.)

Charles A. Howard, Pontiac, Mich., U.S., 10th October, 1883; 5

years.

Claim.—lat. In a vehicle bols.er spring mechanism, the combination, with the bed plate or plates adapted to rest on the bolster, and the cross-bar adapted to receive the weight of the load, of spiral springs extending between said bed plates and cross-bar at their extremities, and a semi-elliptic spring adapted to be swung either or or off the bolster at will, substantially as described. 2nd. In a vehicle bolster spring mechanism, the combination, with the bed plates, and the cross-bar and spiral springs extending between the ends of the same, of a semi-elliptic spring proted with its convex face to the cross-bar, and adapted to be either swung off from the bolster and thus add to the support of the load, or swung off from the bolster and thus support none of the load, or swung off from the bolster and thus support none of the load, substantially as described. 3rd. In a vehicle bolster spring mechanism, the combination, with the bed plates, the cross-bar, and a semi-elliptic spring, proted to the said cross-bar, and adapted to be swung either on or off the bolster, of spiral springs extending between the said bed-plates e on the oross-bar and held in place by the bolts eq. substantially as described. 4th In a vehicle bolster spring mechanism, the combination, with the bed plates, the cross-bar, the spiral springs and the semi-elliptic spring in a position either on or off the bolster, of means for locking the semi-elliptic spring in a position either on or off the bolster, se patantially as described.

# No. 29,965. Baling of Hay, Straw, etc. (Presse d'emballage pour le foin, la paille, etc.)

John H. and James H. Howard and Edward T. Bonsfield, Bedford, Eng., 10th October, 1888 5 years.

Eng., 10th October, 1888 '5 years.

(laim.—Ist. An apparatus for baling hay, straw and other materials, wherein two endless platens a, a are employed, substantially in the manner hereinbefore described. 2nd. In apparatus for baling hay straw and other materials, the combination, with two endless platens a, a, arranged to converge towards each other and to gradually compress the material between them, of a conveyor or moving platform h for transporting the materials to the platens, substantially as described. 3rd. In apparatus for baling hay, straw and other materials, the employment of a table s, substantially as hereinbefore described, for receiving the compressed material and supporting the same during the application of bands thereto. 4th. The employment of the retaining clamps j, substantially as and for the purpose described.

## No. 29,966. Cooking Vessel.

(Ustensile de cuisine.)

Robert U. Irwin, Meadowvale, and William L. Hardy, Toronto, Ont., 17th October, 1888; 5 years.

Claim.—1st. A cooking vessel having a hinged bottom in two sections attached to a central cross-piece, each notion section having a catch combined with a partition crossing the vessel in the line of the cross-piece, whereby either compartment of the vessel may be opened without disturbing the contents of the other compartment, substantially as described. 2nd The combination, with a cooking vessel having hinged bottom sections, and catches therefor, and a removable partition, of an inscrible vessel to fit in and fill the first mentioned wastel above the northwithing the contribution and armonal contribution and armonal contribution and armonal contribution of an inscribing the contribution and armonal contribution armonal contribution and armonal contribution and armonal contribution and armonal contribution armonal contribution and armonal contribution tioned vessel above the partition, the construction and arrangement being substantially as described. 3rd. The combination, with a cy lindrical cooking vessel having holes in its sides, of a collar adjusted to slide over the sides, and a flange on said collar, the parts being and operating, substantially as described.

## No 29,967. Wire Lathing. (Lattis en fil de fer.)

Thomas Cockburn, Hamilton, Ont., 10th October, 1888: 5 years.

Thomas Cookburn, Hamilton, Ont., fold October, 1885; 3 years. Claim.—1st The combination of flat wire, woven to form square, diamond or oblong spaces a, substantially as and for the purpose hereinbefore of forth. 2nd. The combination of flat wire, woven to form square, diamond or oblong spaces a, with projections B at certain distances, substantially as and for the purpose hereinbefore set forth. 3rd. The combination of the attachable projections B1, with wire lathing, substantially as and for the purpose hereinbefore set forth.

#### No. 29,968. Telephone Address Index and Advertizing Device. (Index d'adresse téléphonique et appareil de publicité.)

John F. O'Brien, Quebec, Que., 10th October, 1888; 5 years.

claim.—Ist. The combination of the board A, the alphabetical index book C secured thereto briofwise, and the springs E to hold up the leaves of said index when making reference, substantially as set forth. 2nd. The combination, with the board A having springs E, of the index book C secured briefwise thereto, said book having a stubback D, and leaves E alphabetically arranged and attached removably to said back, substantially as set forth.

#### No. 29,969. Combined Door Lock and Latch. (Serrure et locquet de porte combinés)

Theodore Martin, Wallaceburg, Ont., 10th October, 1888; 5 years.

Theodore Martin, Wallaceburg, Ont., 10th October, 1883; 5 years.

Claim.—1st. In a combination latch and lock, the combination of the latch provided with the shoulder a, and the interior key bult F having the foot G adapted to engage with the shoulder a on the latch, substantially as described. 2nd. In a combined lock and latch, the combination of latch, the shoulder a formed thereon, the latch suring J operating against the shoulder a and secured in vertical position on the face of the case, and the interior key bolt F provided with the foot G, all combined to operate substantially as described. 3rd. In a combined lock and latch, the combination, of the latch T provided with the shoulders and c, the interior key bolt F provided with the foot i adapted to engage with the shoulder a, and the night latch provided with the wing N, adapted to engage with the shoulder U, all combined to operate substantially as described.

## No. 29,970. Car Brake. (Frein de char.)

Jacob S. Sterrett, Philadelphia, Penn., U.S., 10th October, 1888; 5

Jacob S. Sterrett, Philadelphia, Penn., U.S., 10th October, 1888; 5 years.

Claim.—1st. In an automatic brake mechanism, the combination, of a shifting buffer, springs F and Ft, draw-bars D and Dt; frame E, sliding link G pinned to the rod Dt and pivetally connected with rods II and II; lever I loosely mounted on a pun J, itags K and Kt adapted to be moved by the lover I to cause the pin J and levers M and a to be actuated for applying the brakes, substantially as described. 2nd In an automatic brake mechanism, the combination, of a sliding link to pivotally connected with a rod Dt, a shifting buffer A, connected with said rod, bars H and Ht, lever I, lugs K and Kt, and a pin J for causing the brakes we be applied by other an inward push or for ward thrust of the buffer, substantially as and for the purpose described. 3rd. In an automatic brake mechanism, the combination of the morable buffer A, draw-bar D, cross-head C and supports F attached to the bottom of the car, and provided with a tongue C adapted to receive a pin normally held in rear of the cross-head for checking inward thrust of the buffer, substantially as and for the purposes described. 4th. In an automatic impact brake mechanism, the combination of a cylinder provided with a piston adapted to be actuated pneumatically, to shift the parts of a brake mechanism whereby said mechanism may be controlled from the engine to cause the brakes to be applied either by a pull on or a push against the buffer, substantially as described. 5th. In an automatic impact brake mechanism, the combination, of a cylinder provided with a piston capable of actuation by compressed air, a brake mechanism gazinst said piston to drive it back to its place when the air pressure is released, substantially as and for the purpose described. 5th. In an automatic impact brake mechanism, the combination, of the buffer A, draw-bars D and Di, frame E, sliding link or guide to pinned to the rod Di, arms H and Ht, lever I, lugs K and Kt, pin J, span or bridge V attached to the link G,