No. 24,747. Ventilating Attachment for Stoves. (Appareil de Ventilation pour Polles.

Warren M. Brinkerhoff, Auburn, N. Y., U. S., 14th August, 1886; 5

Warren M. Brinkerhoff, Auburn, N. Y., U. S., 14th August, 1886; 5 years.

Claim.—1st. The combination, with a stove, of a ventilating passog separate from the flues of the stove communicating with the outer air at its lower end, and discharging into the smoke outlet of the stove at its upper end, the said passage diverging out of a direct course and traversing a greater distance than the length of the parts of the stove, or its connections adjacent thereto, the whole of the diverging portion of said passage lying in close proximity to the wall of the stove or its outlet, substantially as described. 2nd. The combination, with a stove, of a ventilating passage separate from the flues of the stove communicating at its lower end with the outer air, and discharging into the smoke outlet within a short distance of the stove, said ventilating passage being provided intermediate its end with an annular portion, substantially as described. 3rd. The combination, with a stove, of an annular passage lying adjacent to the walls of the smoke outlet, and a ventilating passage communicating with the outer air at its lower end, and with the said annular passage at its upper end, the said annular passage also communicating with the smoke outlet, within a short distance of the stove, substantially as described. 4th. The combination, with a stove, of an annular passage of the ventilating passage communicating with the smoke outlet, and a ventilating passage communicating with the smoke outlet, and a ventilating passage communicating with the smoke outlet, on the said annular passage communicating with the smoke outlet, on the said opposite the entrance of the ventilating passage, substantially as described. 5th. The combination, with a stove, of a ventilating passage exparace from the flues of the stove, communicating with the air at its lower end, and rising therefrom and discharging into the smoke outlet of the said passage at its upper end being pro

No. 24,748. Clutch for Electric Arc Lamp. (Griffe de Lampe Electrique à Arc.)

Clarence B. Noble, Cleveland, Ohio, U.S., 14th August, 1886; 5 years. Claim.—1st. In a clutch for electric-arc lamps, the combination with a vertically moving hollow carbon-holder containing, within itself, a loosely fitting tilting friction disk held stationary on one side by a wire or rod, also contained within the holder and attached above to the lamp frame, with the opposite side of the disk supported by a wire or rod contained within the holder and connected above to the core or armature of a helix, said helix being connected above to the core or armature of a helix, said helix being connected above to the core or armature of a helix, said helix being connected above to the core or armature of a helix, said helix being connected above to the core or armature of a holix, said helix being connected above to the core of the inside of holder to grip and elevate it, the parts being arranged substantially as shown. 2nd. In clutches for electric-are lamps, the hollow carbon-holder consisting of a tube or cylinder and containing, within itself, a loosely fitting tilting friction disk and wires for tilting and tripping the disk, to respectively tiphten and loosen the grip of the disk against the interior of carbon-holder, for separating and feeding the carbons, the said wires passing up through the holder and being connected one with the lamp frame, the other with the armature core of the helix, said helix being in electric are lamps, of a hollow carbon-holder, a loosely fitting clutch disk operating therein and supported on opposite sides by wires passing up through said holder, one wire or rod supporting one side of the disk and attached above to lamp frame, with the other wire or rod supporting the length of the bilder and being connected above to heaven from the helix core for regulating the length of the arc, all the parts being arranged as and for the purposes shown. 4th. The combination, in clutches to regulating the length of the arc, all the parts being arranged as and for the purposes shown. 4th. The comb Clarence B. Noble, Cleveland, Ohio, U.S., 14th August, 1886; 5 years.

No. 24,749. Elliptic Spring. (Ressort Elliptique)

William G. Simpson, Guelph, Ont., 16th August, 1886; 5 years.

William G. Simpson, Gueiph, Unt., 16th August, 1886; 5 Years.

Claim.—1st. An elliptic spring in which the upper and lower plates are formed out of one piece of metal, substantially as shown and described. 2nd. An elliptic spring in which the eye A is formed in the centre of the plates a and b, and the eye B out of a correspondingly shaped plate a and b, the two plates being connected together, substantially in the manner specified. 3rd. An elliptic spring in which the eye A is formed in the centre of the plate a and b, and the eye B out of a correspondingly shaped plate a and b, the two plates being connected together, in combination with a series of outer plates d, substantially as and for the purpose specified.

No. 24,750. Steam Engine. (Machine à Vapeur.)

Charles E. Robertson, Montreal, Que., 16th August, 1886; 5 years. Claim. 1st. The combination of a triple cylinder having passages and pistons, substantially as described, with steam chest N having extension. O and P, and valves Q, U and S, the whole substantially as described. 2nd In combination with the ports F, E, I and M, the valves Q, U and S, constructed, arranged and operated substantially as described.

No. 24,751. Steam Boiler. (Chaudière à Vapeur.)

Robert W. King, Georgetown, Ont , 16th August, 1856; 5 years.

Robert W. King, Georgetown, Ont., 16th August, 1886; 5 years.

Claim.—1st. A steam boiler in which the furnace is placed within the inner shell, and the outer shell is surrounded by a closed space communicating with the chimney or main flue, the combination of a series of tubes placed between the inner and outer shell of the boiler, and connecting the furnace with the outer space, substantially as and for the purpose specified. 2nd. The inner shell B surrounding the furnace A, and connected at its lower end to the outer shell C, by the plate D, resting on the wall K, in combination with a series of tubes F, arranged to connect the furnace A with the space f, substantially as and for the purpose specified. 3rd. The inner shell B surrounding the furnace A, and connected at its lower end to the outer shell C, by the plate D, resting on the wall K, in combination with the dead plate J and tubes F, substantially as and for the purpose specified. 4th. The inner shell B surrounding the furnace A, and provided with a covering plate I, having an annular flange a formed on it, to receive the set serew or screws b, in combination with the coal magazine H, arranged substantially as and for the purpose specified. 5th. The tubes F connecting the furnace A with the space f, in combination with the openings L formed in the wall K, and protected by detachable doors O, substantially as and for the purpose specified. specified.

No. 24,752. Wind Mill. (Moulin à Vent.)

Frederick B. Bouteiller, Belle River, Ont., 18th August, 1886. 5

Claim.—1st. In a windmill, the combination, with the vertical shaft and the adjustable sails, of the disk M on said shaft, the governor, the connections N between said disk and sails, and the adjustable weights L on said connections, substantially as described. 2nd. In a horizontal windmill, the combination, with the vertical shaft, the disk M sleeved thereon, and provided with a plurality of holes m, and the governor, of the adjustable sails, the eyes O secured thereto, the connections N having hooked ends engaging said holes and have and because the sleevel or said connections. and eyes, and the weights L adjustably sleeved on said connections, substantially as described.

No. 24,753. Traction Wheel. (Roue de Traction.)

Morgan Lavering and Eli H. Anspaugh, Columbia City, Ind., U.S, 18th August, 1886; 5 years.

Claim.—The traction wheel herein described, the rim thereof bava flat periphery, and provided on opposite sides with a series of spaced rectangular logs arranged singly thereon, the outer edges of which are flush with the edges of the rim, their inner edges forming with the enobstructed flat portion of the rim a space E, as shown and described and for the purpose set forth.

No. 24,754. Straw-Cutting Machine.

(Coupe. Paille.)

Manus C. Beaupré, Chariotteville, Unt., 18th August, 1886; 5 years-Claim.—Ist. The combination of the endless band or belt M, carrying knives suitably attached thereto, with the roller B, of raw hide of other suitable material, substantially as described and for the purposes specified. 2nd. The combination, which may be attached to a thrashing machine, of the roller B with the knives A, A, carried on endless band or belt M, substantially as described and for the purposes specified.

No. 24,755. Button-Fastening for Corsets, etc. (Queue de Bouton pour Corsets, etc.)

Sherwood B. Ferris, Lakewood, N J., U.S., 18th August, 1886, 5 years.

years. Claim.—In corsets and other garments, or articles of wear, provided with flexible button fastenings, the article or garment provided with buttons b, carried by tapes or flexible stripse, passed forward and backward successively through the centre portions of the buttons, and secured to the garment at their terminal portions under cover and inclosure by a scamed portion of the garment, essentially as shown and described.

No. 24,756. Harvester Knife Grinder. (Rémouleur de Couteaux de Moissonneuses.)

John F. Webster, Elkhart, Ind., U.S., 18th August, 1836; 5 years.

John F. Webster, Elkhart, Ind., U.S., 18th August, 1836; 5 years. Claim.—1st. The combination of the support or standard, the main frame pivoted therete, a general drive-wheel keyed to the outer end of the pivotal connection, the supplemental frame pivoted to the outer end of the main frame, a pinion C2 journalted in line with the pivotal connection between the two frames, and meshing with the gear of the drive-wheel, the grinding-wheel supported on the outer end of the supplemental frame and having its shaft provided with a gear-pinion G1. a gear-pinion II, meshed with the pinion G1. and journalled in line with the pivot between the main and supplemental frames, and keyed to; and rotating with the pinion B2, whereby the grinding-wheel may be revolved in any position of the main or supplemental frame, substantially as described. 2nd The combination of the curved support or standard B3, the main frame, the supplemental frame pivoted to the main frame, the supplemental frame pivoted to the main frame, the supplemental frame pivoted to the pivotal connection between the two frames and meshed with pinion G2, and journalled on the pivotal connection between the standard and the main frame, all substantially as set forth. 3rd. The combination, with the main