way leading into the cylinder H, protected by the valve B, which is connected to an adjustable partition a, designed to form a division in the chamber D, the passage ways b, fand E, arranged as described, to connect the two divisions of the chamber D to the chamber of the escape pipe I in the chamber E, and connected to the adjustable par-tition a, which divides the chamber E, as specified, and the passage-way F connecting one division of the chamber E with the chamber of the valve A, the passage-ways for the purpose hereinbe-fore explained. 3rd. A passage-way located between the supply and discharge valve-chamber the supply is within the supper where cham-ber of the valve A, substantially as and for the purpose hereinbe-fore explained. 3rd. A passage-way located between the supply and discharge valve-chamber beaks pressure from the cylinder caused by the wheth of the car, the moment that the water-pressure in the supply ohamber is removed, thereby opening a passage-way between the lower portion of the discharge valve-chamber so that it remains closed when the water from the bydraulic cylinder shall instantly close the valves, substantially as and for the parsone syscelfied. 4th. The passage-way E and E, provided with valves B and C, each con-netsed to an adjustable partition a, dividing its respective chamber as a first of the charge ralve-chamber so that the nearbor D and E on one side of their partitions, and the passage-way b, communication their respective scats that an excess of pressure in the chamber E with the passage-way b, and so arranged in connection with their respective scats that an excess of pressure in the chamber E with the passage-way b, and so arranged in connection with their respective scats that an excess of pressure in the chamber E with the passage-way b, and so arranged in connection with their respective scats that an excess of pressure in the chamber E with the stores way for the parsone specified. 5th. The double-seated valve-chamber hey provided with passage-way sheading to

# No. 26,368. Art or Process of Preparing Smokeless Fuel. (Procédé de Préparation du Combustible sans Fumée.)

Ferdinand Koopman, Hamburg, Germany, 2nd April, 1887; 5 years. Claim.-lst. The art or process of mixing coal with limestone, pul-verized or otherwise rendered into small pieces, and making brigusts from such mixture, substantially as and for the purpose specified. 2nd. A compound, composed of pulverized coal, limestone and pyro-lusite formed into briquets, substantially in the proportions and for the purposes set forth.

#### No. 26,369. Steam Boiler. (Chaudière à vapeur.)

Noel F. Sawyer, Haverhill, Mass., U.S., 2nd April, 1887; 5 years.

Noel F. Sawyer, Haverhill, Mass., U.S., 2nd April, 1887; 5 years. Claim.—lst. In a steam generator, the hollow water front a having the rearwardly projecting hollow water chambers  $a_1, a_1$ , adapted to form the sides of the fire-box, and having the inclined tops  $a_1, a_1$ ; for the purpose of causing a proper circulation of the water within said chambers  $a_1, a_1$ , as set forth. 2nd. In a steam generator, the hollow water front a having the vertical division walls  $a_3, a_3$ , as de-scribed, combined with the hollow water chambers  $a_1, a_1,$  and U-shaped circulating pipes g, g connected to the rear of the water front a, as and for the purpose set forth. 3rd. In a steam generator, the hollow water front a and the U-shaped circulating pipes g, g, g, connected to the rear of said hollow water front, in combination with the fire-box arranged between the upper and lower legs of said U-shaped circulating pipes g, g, g, g some set forth. 4th. In a steam gener-ator, the hollow water front a and the U-shaped circulating pipes g, g, g,  $a_r e contained, as and for the purpose set forth. 5th. In a steam$ generator, the hollow water front <math>a and the U-shaped circulating pipes g, g, g,  $a_r e contained, as and for the purpose set forth. 5th. In a steam$ generator, the hollow water front <math>a and the U-shaped circulating pipes g, g, g.  $a_r e contained, as and for the purpose set forth. 5th. In a steam$ generator, the hollow water front <math>a and the U-shaped circulating pipes g, g, g, as described, in combination with the inclined cover mfor conducting the products of the fire to the highest portion of said circulating pipes, and the return flue o for heating the lower portions of said pipes g, g, g, s as set forth.

### No. 26,370. Cutter-bar Adjustment for Mowing Machines. (Souche de lames de faucheuses.)

Newton Cossitt, Brockville, Ont., 2nd April, 1887; 5 years.

Claim.—Ist. The combination of the arm A, brace B, pivotal con-nections b, b1, pintle a1, bracket D, D1, lever L, catch l, notched seg-ment G, hinge joint H, lugs h1, and arm A, substantially as shown and described. 2nd. The combination of the arm A, pintle a, hinge

joint H, segment G, bucket D, lug DI, lever L, catch l, spring handle  $l_1$ , and rod  $l_{11}$ , substantially as shown and described.

# No. 26,371. Grain Separator and Cleaner. (Tarare-cribleur.)

John P. Bond, J. H. Brubaker and Thomas J. Calbert, Warsaw, Ind., U.S., 2nd April, 1887; 5 years.

U.S., 2nd April, 1887; 5 years. Claim.—1st. The combination of the frame A, shoe and screens, the fan.chamber placed inside of the frame and provided with air openings, the fan, the exhaust passage R, door S, passage K pro-vided with opening L, slide M, passage I and chamber N, whereby the grain is separated and cleaned either by suction or by suction and blast, substantially as described. 2nd. The combination of the frame A, the shoe and screens, the fan chamber placed inside of the frame and provided with air openings, the fan passage I, door S, passage K provided with opening L, slide M and passage I with the chamber N, deflector or screen placed in the top of the chamber, the modera-ting board Q, and a means for moving it, substantially as described.

# No. 26,372. Mowing Machine. (Faucheuse.)

William J. Clokey, Toronto, Ont., 4th April, 1887; 5 years.

Claim.-1st A mowing machine in which spokeless main wheels are supported by suitable friction rollers, journalled around circular side-pieces of the frame of the machine, through which side-pieces are supported by suitable friction rollers, journalled around circular side-pieces of the frame of the machine, through which side-pieces the extension-bar supporting the cutter-bar, and the pitman to drive the knife passes, substantially as and for the purpose specified. 2nd. A spokeless main wheel C having a spurwheel D attached to it to mesh with the spur-pinion G, in combination with the circular side-piece A of the frame fitted over the spur-pinion G, and provided with rollers E to revolve within the groove a, the whole being arranged substantially as and for the purpose specified. 3rd. An extension-bar M supported at one end at *j* to the frame, and at its other end to the cutter-bar O, in combination with the lever Q, arranged substantially as and for the purpose specified. 4th. An extension-bar M supported at one end at *j* to the frame, and at its other end to the cutter-bar O, in combination with the lever P are made at an d for the purpose specified. 5th. An extension-bar M supported at one end at *j* to the frame, and having is and for the purpose specified. 5th. An extension-bar M supported to the cutter-bar O, in combination with the lever N suitably connected to the cutter-bar O, in combination with the lever P sleeved on the bar M, and connected by gearing to the sleeve N substantially as and for the purpose specified. 5th. An extension-bar M supported by the frame of the machine, and suitably connected at one end to the extension-bar M, and at its other end to the whifte-tree V, substantially as and for the purposes specified. 6th. A pitman K having an eye *b* formed on it with a conical hole formed in it to fit over the conical hub d fixed to the projection *e*, in combination with the bar of the purpose specified. fied.

# No. 26,373. Watch Case Pendant.

(Queue de boîte de montre.)

Casper Kistler, Sterling, Ill., U.S., 4th April, 1887; 5 years

Casper Kistler, Sterling, Ill., U.S., 4th April, 1887; 5 years Claim.—lst. The combination of the pendant A, provided with the interior thread M and external annular shoulder H, the winding-stem B provided with the annular recess D, the screws C and the crown E provided with the annular recess D, the screws C and the crown E provided with the annular recess D, the screws C and the crown E provided with the annular recess D, the screws C and the crown E provided with the annular recess D, the screws C and the crown E provided with the coss F being thus adapted to be screwed into the open end of the pendant A, and the outer end of the latter to enter coincidently the recess G until the inner edges of the crown E shall abut against the shoulder H, substantially as shown and for the purpose described, 2ad. The combination of the pendant A, provided with the interior thread M and external annular shoulder H, the winding stem B having a limiting longitudinal play in the pendant A, the crown E provided with the annular recess G and in ternal boss F having the exterior thread F<sup>1</sup>, the boss F being thus adapted to be screwed into the open outer end of the pendent A, and the outer end of the latter to coincidently enter the recess G until the inner edges of the crown E shall abut against the shoulder H, substantially as shown and for the purpose herein specified.

### No. 26,374. Variety Moulding Machine.

(Machine à moulures variées.)

Samuel J. Shimer, Milton, Penn., U.S., 4th April, 1887; 5 years.

Samuel J. Shimer, Milton, Penn., U.S., 4th April, 1887; 5 years. Claim.—lst. The combination, with the lower tool, the main table and the upper tool arranged in the hinged arm E, of the intermediate detachable and adjustable table D formed with a tool aperture, and projected from and supported by an adjustable support on the main table between the tools above the main table, whereby the work may be accommodated to the action of the lower tool or to the tool in the hinged arm, as specified. 2nd. The combination, with the sliding rod, a cam-shaped block secured to the top of said turning-bar and serving as a rest or support for the lower end of the lifting-bar, and an operative device for rotating said cam-block and vertically recip-rocating the lifting-bar, substantially as described. 3rd. The com-bination, with the hand-lever, of the shifting mechanism formed with a cam-shaped block secured to the post of the lower tool, of the lifting-rod rests, and is supported and the sliding housing of the lower tool, of the lifting-rod disposed through guide-arms in the past of the machine, and having a projecting arm extending within the housing, substan-tially as described. 4th. The combination, with the table of a mould-ing machine, of the overhanging arm E comprised of a stationary base-piece, and a fore-arm hinged to said stationary base-piece by a lap-joint secured by a pivotal bolt, and having in one face a quarter-turn groove and in the other a pin projected within said groove, sub-stantially as described.

# No. 26,375. Hat-Holder. (Porte-manteau.)

William H. Atwood, Hudson, N.Y., U.S., 4th April, 1887 : 5 years. Claim .- 1st. A hat-holder consisting of inwardly bent pointed at-