work with a cylindrical or conical spiral spring excessively twisted by winding up, substantially as set forth. 2nd. In clocks and watches, the combination of the wheel work with a cylindrical or conical spring compressed by winding up, substantially as specified.

No. 23,069. Ludder. (Echelle.)

Eugeno E. Fox and George McDormand, Somerville, Mass., U. S., 4th January, 1886; 5 years.

Ath January, 1886; 5 years.

Claim.—1st. In an extensible ladder, the pivoted hook D, provided with the camf and lover E, in combination with the sections F. A and means for mising section B, substantially as described. 2nd. In an extensible ladder, the pin b, in combination with the hook D for preventing the latch or lover E from dropping too low, substantially as set forth. 3rd. In an extensible ladder, the combination of the following instrumentalities, to wit 'two sections, each provided with a sheave and rungs, and adapted to slide on the other, a cord passing over the sheaves for raising and lowering one of the sections, and a gravitating hook pivoted to a rung of one of the sections and adapted to ongage the rungs of the other section, said hook being provided with a lever or latch for closing its mouth, and a cam for threwing it outwardly to enable it to puss upwardly over the rungs of the section to which it is not pivoted, substantially as described. 4th. The improved extensible ladder herein described, the same censisting of the section A provided with the rungs x and sheave; the section B provided with the rungs x and sheave; the section B provided with the rungs x and sheave it, the section B arranged to operate, substantially as set forth. 5th. In an extensible ladder, the lever E extended beyond the end of the hook D, whereby said lever is enabled to engage the rungs of section A and open the hook as it passes upwardly over said rungs, substantially as described.

No. 23,070. Combined Filter and Cooler. (Filtre-Fontaine.)

John C. Jowett, Buffalo, N.Y., U.S., 4th January, 1886; 5 years.

John C. Jowett, Buffalo, N.Y., U.S., 4th January, 1886, 5 years.

Claim.—1st. In a combined filter and cooler, an independent shell for said filter, in combination with the filtering-vessel and a narrow band permanently affixed to said filtering-vessel, said band forming a continuation of the independent shell as and for the object stated. 2nd. In a combined filter and cooler, an oblong gravel-cup H having perforated partitions II, a perforated receiving-cup J and a sponge-cup, I, said sponge-cup being located with reference to the gravel-cup, substantially as and for the purpose indicated. 3rd. In a filter, the combination, with the gravel-cup, of a sediment compartment P having draw-off faucet h, as and for the purpose specified. 4th. The combination, with the vessel E having the perforated bottom G, and the disphragm F of the oblong gravel-cup II having the perforated partition II, the perforated bottom, apartment P and faucet h and the filter-strate, substantially as and for the object mentioned. 5th. The combination, with the gravel-cup II having the perforated bottom, of a filling consisting of a layer of cheese-cloth and a sponge, as and for the purpose indicated. 6th. The combination, in a filter, of the shell E having perforated bottom G and diaphragm F, the gravel-cup II with perforations d, and the laterally presented.

No. 22 0.7 1 A recorded deciring the perforated better the specified.

No. 23,071. Apparatus designed to Facilitate the Process of Covering Pills with Plastic Coatings. (4p. pareil pour Faciliter le Procede pour Couvrir les l'illules de Corps Plastiques.

Edgar L. Patch, Boston, Mass., U.S., 4th January, 1886, 5 years.

Edgar L. Patch, Boston, Mass., U.S., 4th January, 1886, 5 years.

Clum—1st. In an apparatus for pith-coating, the circular dryingdisks A. A, provided interiorly with radial automatic clutches D,
confining displaceable bars F, carrying impaling-points N, substantially as and for the purpose set forth. 2nd. In an apparatus for
pill-coating, the combination, with the drying-disks A, A, of separable impaling bars F, rigidly confining a series of impaling-needles N,
said needles extending in a direction radially from the axis, as specified. 3rd. In an apparatus for pith-coating, the combination of the
separable impaling-bars F, with a series of extending needles N, secured rigidly in transverse slots by short holding-wires U and capping F, for the purpose set forth. 4th. In combination with the
impaling-bars F, the dipping-handle provided with U-staped and reflected spring-arins W and V, as described. 5th. In an apparatus for
pill-coating, a dividing and separating tray a, in combination with a
detachable serrated dividing plane or floor k, sustaining a series
of conical depressions j, for the accurate impalement on the same
dividing plane of every size of pill, as herein specified. 6th. In an
apparatus for pill-coating, the combination of the transverse partition d, with a dividing-plane h provided with continuous serrated
raceways a terminating in conical depressed pockets, substantially
as shown. 7th. In an apparatus for pill-coating, the combination,
with the inclined floor h, of the aggregate devices k, l, m acting in
conjunction with the depressions n in the under side of said incline
h, to depress or raise the pockets/bringing them in juxtaposition
with the impaling-points N, for the purpose set forth. 8th. In combination developments of the purpose described. 10th In an apparatus
for pill-coating, the combination, with the drying disks A, of a separable impaling-bar F embracing the tengence vertically-channelled
side M, the tongued and recessed bar R provided with transverse
P, tongue Q a

No. 23,072. Chimney Cowl. (Capuchon de Cheminée.)

Albert T Putnam, and Henry L. Wineman (Assignces of Thomas J. Bradbeer), Detroit, Mich., U.S., 4th January, 1886; 5 years.

Claim.—1st. The flue A provided with deflecting flange D secured to said flue, the deflecting frustum E secured to said standards above the flange D, the frustum F secured to the standards above the frustum E secured to the standards above the frustum E, inverted frustum G secured to the bottom of frustum E and the cone C of smaller diameter than said flue and supported by said standards, substantially as described. 2nd. The improved chimney cowl herein described, consisting of the flue A, standards B, cone, cap C, of smaller diameter than said flue and supported by said standards, deflecting frustums E, F, inverted frustum G secured to the bottom of said frustum E, and having opening frustum II secured to the frustum G, and upper frustum J rigidly secured to the outer ends of the standards B, all arranged and operating as and tor the purpose specified.

No. 23,073. Spring Hingo. (Penture à Ressort.)

Simeon Cosky, Sorel, Que., 4th January, 1886, 5 years.

Réclame. La combinaison nouvelle du ressort en spirales à fonctions multiples, tel qu emprisonné et fixé dans la carteuche G3, conjointement avec la douille fixe D et douille mobile E, les susdites donilles tolles que composées des parties D, D1, D2, D4 et al et E, E1, E2, f et a3 et l'iéquivalent \(\beta \). Le gond, \(\hat{A} \) tel que composé des parties tête \(\hat{A} \) en pans \(\hat{C} \) error g1 \(\hat{A} \), \(\hat{A} \)

No. 23,074. Metal Roofing. (Toiture Métallique.)

The National Sheet Metal Roofing Company (Assignee of John Walter), Nashville, Tenn., U.S., 4th January, 1886; 5 years.

Claim.—1st. The combination of layers of sheet metal plates A, in such manner that the seams G between the plates of an upper layer shall coincide with and form an extension, of a central corrugation I formed in the plates of the next lower layer, substantially as set forth and shown. 2nd. The combination of layers of sheet metal plates A in such manner that the seams G between the plates of an upper layer shall coincide with and form extensions of central corrugations I, formed on the plates of the next lower layer and the central corrugations J of said upper plates shall overlap the seams G of said lower plates, substantially as described and shown

No. 23,075. Electro-Magnetic Stop Mechanism for Automatically Arresting the Motion of a Knitting Ma-chine. (Mécanisme Electro-Magnétique d'-Arret Automatique pour Machine à Tricot.)

Andrew M. Newlands, Preston, and Adam Warnock, Galt. Ont., 4th January, 1886; 5 years.

Andrew M. Newlands, Preston, and Adam Warnock, Galt, Ont., 4th January, 1886; 5 years.

Claim.—1st In a knitting machine, having one pole of an electromagnet permanently connected to it, the armature of the said magnet permanently connected to it, the armature of the said magnet when not in contact with it being designed to hold rigidly a series of lovers, by which the belt-shifter or stop-lever of the machine is in operation, the combination of mechanism, substantially as described, by which the breaking of a thread shall put the other pole of the magnet into circuit for the purpose of attracting the armature towards its magnet and thereby relieve the belt-shifter or stop-lever, so that it shall stop the machine, substantially as specified. 2nd. In a knitting machine having one pole of an electro-magnet permanently connected to it, the armature of the said magnet when not in contact with it being disigned to hold rigidly a series of levers by which the belt shifter or stop-lever of the machine is beld while the machine is in operation, the combination of mechanism substantially as described, by which a hole occurring in the work shall put the other pole of the magnet into circuit, for the purpose of attracting the armature towards the magnet having one pole of an electro-magnet permanently connected to it, the armature of the said magnet when not in contact with it being designed to hold rigidly a series of levers by which the bolt shafter or stop-lever of the machine is held shile the machine is in operation, the combination of mechanism, substantially as described, by which the accumulation of fluff, or anything else, which would in terier with the working of the needles, shall put the other pole of the magnet into circuit tor the purpose of attracting the armature towards its magnet and thereby relieve the belt-shifter or stop-lever. So that it shall stop the machine, substantially as specified. 4th An electro-magnet B, substantially as specified. 4th An electro-magnet B, substantially as specified. 5th. Th