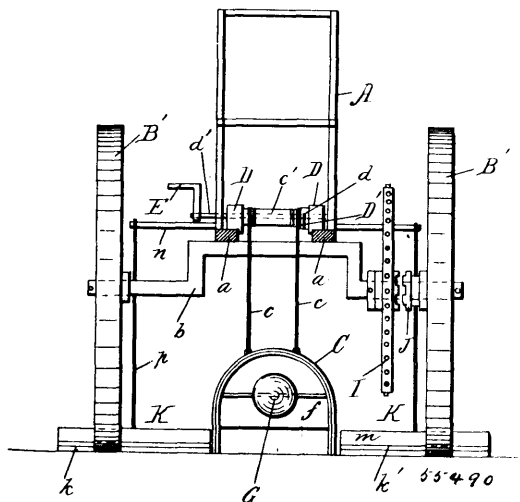
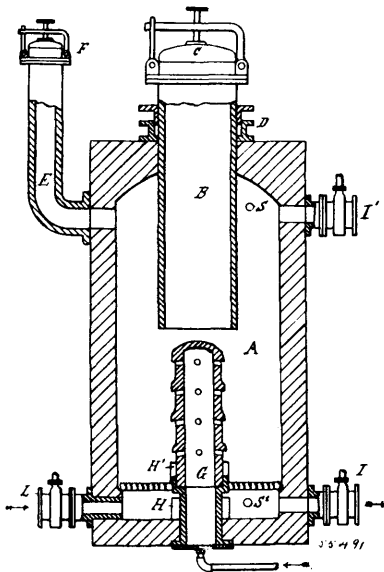


the said fan with one of the said wheels, substantially as set forth.
5th. The combination, with a portable vegetable exterminator, of



extinguishers each consisting of a flexible metallic layer, a layer of hide above it, and weights above the hide, and flexible connections attaching the said extinguishers, to the exterminator, substantially as set forth.

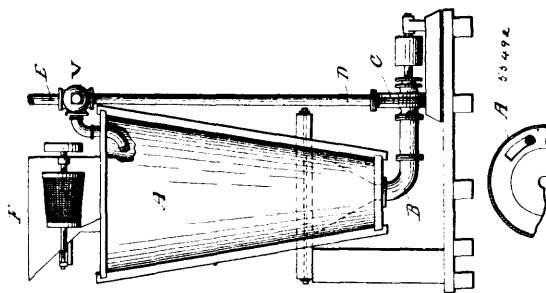
No. 55,491. Fire Escape. (*Surveteur d'incendie.*)



Zdzislaw, Szpor, Krakau, Galicia, Austria, 2nd April, 1897; 6 years. (Filed 8th February, 1897.)

Claim.—1st. In a fire escape, the combination with an outer frame, of an inner frame pivotally connected with said outer frame, an intermediate frame between said outer and inner frame and eccentrically arranged on their pivotal connection, a spiral spring connecting the outer and the intermediate frame, and a series of pins arranged in each of said frames and adapted to form a passage for the main rope, all said parts being so arranged, that when the inner frame is operated, the said series of pins are brought into frictional contact with the main rope, substantially as described. 2nd. In a fire escape, the combination with an outer frame, of an inner frame pivotally connected with said outer frame, an intermediate frame between said outer and inner frame and eccentrically arranged on their pivotal connection, a spiral spring connecting the outer and the intermediate frame, a series of pins arranged in each of said frames, and a spring controlled lever pivotally secured within the intermediate frame and in engagement with the main rope and adapted to be controlled by the inner frame, all said parts being so arranged, that when the inner frame is swung upwards, the said lever disengages the rope, and when swung downwards, the series of pins are brought into frictional contact with the said main rope, substantially as described.

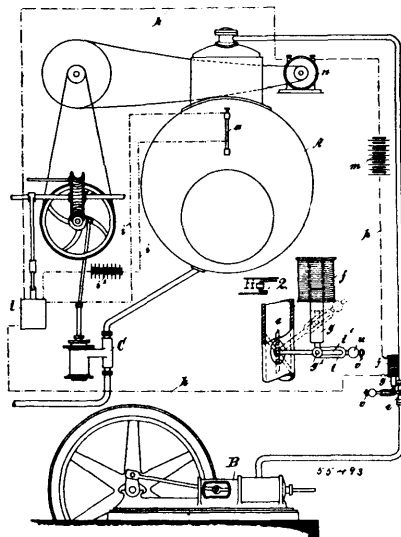
No. 55,492. Agitating Apparatus. (*Appareil agitateur.*)



Charles S. Wheelwright, Providence, Rhode Island, U.S.A., 2nd April, 1897; 6 years. (Filed 6th February, 1897.)

Claim.—The combination with a conical tank or a tank with a conical bottom, of a centrifugal or similar continuously discharging pump connected with the bottom of said tank by a suction pipe, and with the top of said tank by a return pipe, entering at one side tangential with the periphery thereof, substantially as described.

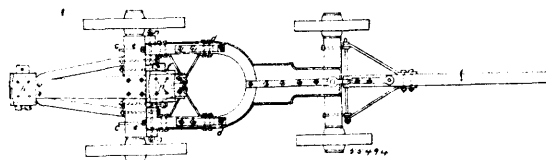
No. 55,493. Electric Water Gauge and Stopping Machine. (*Indicateur électrique du niveau d'eau et machine à arrêter.*)



Hermann Biermann, of Breslau, Germany, 2nd April, 1897; 6 years. (Filed 1st March, 1897.)

Claim.—1st. In a water-level indicator according to patent No. 52,475 an arrangement for automatically stopping the motor B fed by the steam boiler A on starting the feed pump C, and starting it again, consisting of a wire coil *f* inserted into the circuit *h*, of the generator *m* working the electro-motor *n* for the feed pump *l*, attracting the anchor *g* connected with the steam valve *e* of the motor B, as soon as the electric conductor *i*, *h* is closed by the float of the water-level indicator *a*, when the lowest water-level permissible in the boiler A has been reached, thus closing the valve *e*, while the wire coil *f* is deprived of its current and the anchor *g* released as soon as the circuit *i*, *h* is broken by the feed pump C after the highest water-level in the boiler A has been reached, so that the steam valve *e* may be opened by a counter weight.

No. 55,494. Wagon for Transplanting Large Trees. (*Wagon pour planter les gros arbres.*)



Ernest Charles Watson, Toronto, Ontario, Canada, 2nd April, 1897; 6 years. (Filed 8th March, 1897.)

Claim.—1st. The method of attaching the reach to the hind axle by the bolts *n*, *n*, and the chains *a*, *a*, substantially as and for the purpose hereinbefore set forth. 2nd. The method of attaching the tree to the hind axle by means of the blocks *f*, *f*, the iron spikes