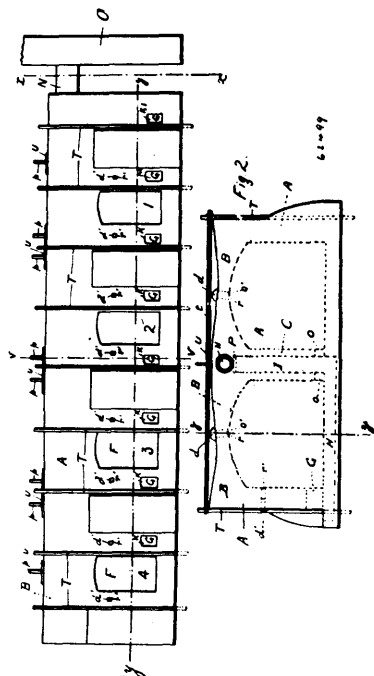
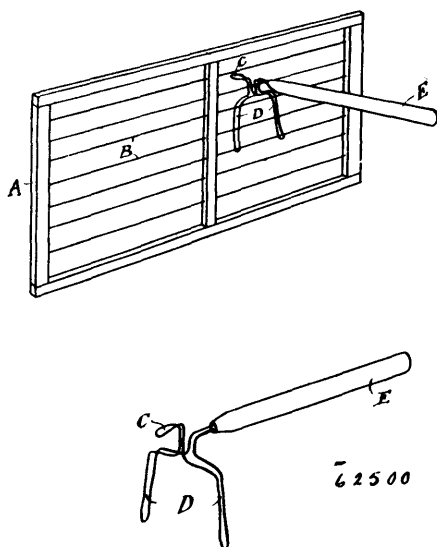


suite aux couloirs H des conduits N de forme rectangulaire, vis-à-vis des cheminées, et cylindrique entre les cheminées, dans les parties-



rectangulaires sont installées, des registres P munis de bras p traversant des plaques métalliques U, le tout tel que montré et pour les fins indiquées.

No. 62,500. Bird Cage Perch. (*Perche pour cages d'oiseaux.*)



Fred Downing, Toronto, Ontario, Canada, 1st February, 1899; 6 years. (Filed 29th September, 1898.)

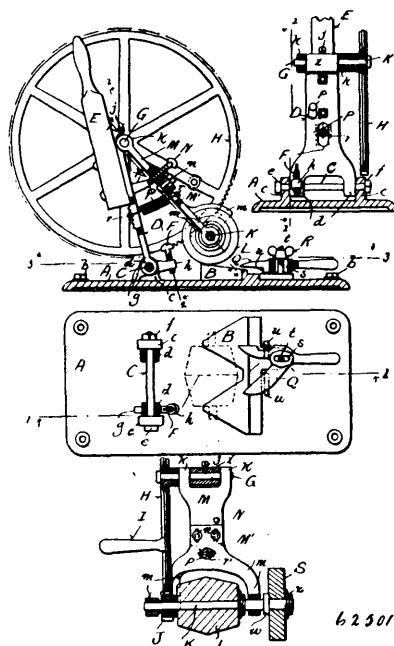
Claim.—The herein described bird-cage perch and attachment, consisting of a perch of any suitable material, a spring-wire attachment secured to the end of the said perch and projecting at its free end to the outside of the cage forming the handle C, the wire of the attachment extending round a number of the wires of the cage whereby the perch is retained in position substantially as described.

No. 62,501. Grinding Machine. (*Machine à aiguiser.*)

Clarence Justin Luther, Poynette, Wisconsin, U.S.A., 1st February, 1899; 6 years. (Filed 17th October, 1898.)

Claim.—1st. A grinding-machine having a cast-metal base in one piece with a pair of upwardly-extending lugs and a V-notched bevel-top sickle-bar support, a sickle-bar clamp-plate in suitable connection

with the base, a tilt-plate having lugs in pivotal connection with the base-lugs, an arbor supported by the tilt-plate, a frame in pivotal



connection with the arbor, suitable means for effecting positive pivotal adjustment of the frame, a spiral-spring connected at its ends to said tilt-plate and frame to move therewith coincident with its expansion and contraction, a grinding-wheel having its arbor rotative in bearings constituting parts of the frame, a pinion fast on the latter arbor, a driving spur-wheel loosely mounted on the former arbor to mesh with said pinion. 2nd. A grinding-machine having a tilt-plate provided with a depending rear stop that comes to rest on the base of the machine, an adjustable stop arranged to limit forward movement of the tilt-plate, an arbor supported by the tilt-plate, a frame having positive pivotal adjustment on the arbor, a spiral spring connected at its ends to said tilt-plate and frame, a grinding-wheel having an arbor rotative in bearings constituting parts of the frame, a pinion fast on the latter arbor, a driving spur-wheel on the former arbor having mesh with the pinion, a transverse bevel-top V-notched ledge on the machine-base and a clamp mechanism for a sickle-bar supported on said ledge. 3rd. A grinding-machine having a tilt-plate, an arbor supported by the same, a frame having positive pivotal adjustment on the arbor, a spiral spring connected at its ends to the tilt-plate and frame to move therewith coincident with its expansion and contraction, a grinding-wheel having an arbor in rotative connection, with said frame, a pinion fast on the latter arbor a driving spur-wheel on the former arbor in mesh with the pinion, a transverse bevel-top V-notched ledge on the machine-base, and a clamp mechanism for a sickle-bar supported on said ledge. 4th. A grinding-machine having a tilt-plate, an arbor supported by the same, a frame in positive pivotal adjustment on the arbor, a spiral spring having one end thereof in adjustable connection with the tilt-plate longitudinally of the same and its other end in non-adjustable connection with the frame although movable with both, a grinding-wheel having an arbor in rotative connection with said frame, a pinion fast on the latter arbor, a driving spur-wheel on the former arbor having mesh with the pinion, a transverse bevel top V-notched ledge on the machine-base, and a clamp-mechanism for sickle-bar supported on the ledge. 5th. A grinding-machine comprising a tilt-plate and means for locking the same in swung-back position, an arbor supported by the tilt-plate, a frame in spring-connection with said tilt plate and having positive pivotal adjustment on the arbor, a sickle-bar supporting ledge and clamp on the machine-base, an arbor rotative in the frame and having one of its ends extended from said frame for the engagement of a detachable grinding-wheel when said tilt-plate is locked in swung-back position, a grinding-wheel fast on the frame-supported arbor for work on sickle-bar knife sections when the aforesaid tilt-plate is free to be swung forward, a pinion fast on the latter arbor, and a driving spur-wheel loosely mounted on the former arbor to mesh with the pinion.

No. 62,502. Dumb Bell. (*Haltère.*)

Joseph N. Maingot, St. George's, Grenada, British Windward Islands, 1st February, 1899; 6 years. (Filed 3rd November, 1898.)

Claim.—1st. A dumb-bell or similar exercising device, having a bell thereon, a knob or handle supported upon the device, and an