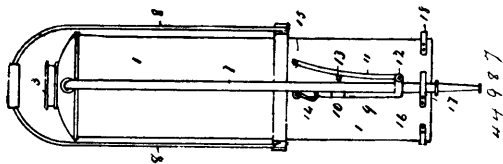


said plate and extended across the said locking apertures, and a wearing surface composed of rubber vulcanized on to the copperized lower surface or web, substantially as described.

No. 44,987. Fire Extinguisher.

(*Extincteur d'incendie.*)

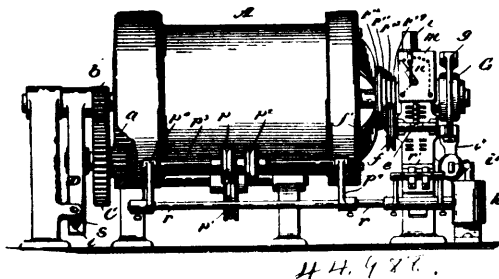


Thomas F. Handly, Allegheny, Pennsylvania, U.S.A., 20th December, 1893; 6 years.

Claim.—1st. In a fire extinguisher, the combination with the receptacle 1, designed to be inverted for use, and a hose connected with said receptacle, of an acid receptacle supported within said receptacle near the top thereof, and a stopper for said receptacle, said stopper having a projection extending within said acid receptacle, and of a greater length than the distance between the top of said acid receptacle and adjacent wall of the receptacle 1, as and for the purpose described. 2nd. In an apparatus for the purpose described, the combination, consisting of the receptacle 1, having a bale pivoted below the centre of the gravity of the same, an acid bottle attached in the interior of the apparatus, having a heavy elongated stopper capable of being removed partly from the mouth of the bottle by gravity, a means for making the bale rigid with the body of the apparatus when the same has been reversed, a hose connected with the fire extinguisher, and a means for closing the same by compression, substantially as described.

No. 44,988. Electric Motor. (*Moteur électrique.*)

Fig. 1.

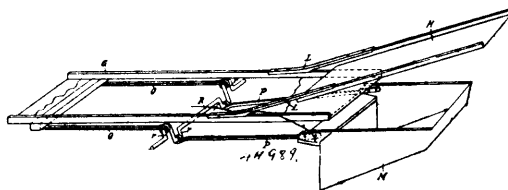


Ernest Richard Esmond, New York, State of New York, U.S.A., 29th December, 1893; 6 years.

Claim.—1st.—In an electric elevator or hoisting apparatus, an electric motor, comprising a field and armature, both of them

rotatable, an intermediate pinion, geared on the one hand to the armature and on the other hand to the field, and a hoisting drum mounted on or formed with the field, substantially as hereinbefore set forth. 2nd. In an electric elevator or hoisting apparatus, an electric motor, comprising a field and an armature, both of them rotatable, an intermediate pinion geared on the one hand to the armature and on the other hand to the field a carrier for said intermediate vibratory upon an axis coincident with that of the armature, and a hoisting drum mounted on or formed with the field, substantially as hereinbefore set forth. 3rd. An electric motor comprising a field and armature, both of them rotatable, in combination with intermediate gearing connecting the two, and a carrier for said gearing hung upon an axis, on which it can vibrate to permit swinging movement of the gearing carried by it, substantially as and for the purposes hereinbefore set forth. 4th. The intermediate and its pendulous spring or weight controlled carrier, in combination with the rotatable field and rotatable armature, of an electric motor, substantially as and for the purposes hereinbefore set forth. 5th. The combination, in an electric motor, having a rotatable field and rotatable armature, with the internal spur wheel *a*, and the pinion *b*, of an intermediate *C*, meshing with said wheel, and pinion, and a carrier for said intermediate pivoted to move upon an axis coincident with that of the wheel and pinion, between which the intermediate is placed, as set forth.

No. 44,989. Separator. (*Séparateur.*)



William J. Borland and William Smith, London, Ontario, Canada, 29th December, 1893; 6 years.

Claim.—1st. In a separator, a double throw crank shaft *F*, in combination with and operating the straw decks *B* and *C*, and means for supporting the outer ends of the latter, substantially as and for the purposes set forth. 2nd. In a separator, a crank shaft *F*, formed with the double throw cranks *f f*, in combination with and operating the straw decks *B* and *C*, and the hangers *D* and *E*, substantially as and for the purposes set forth. 3rd. In a separator, a double throw crank shaft *R*, and connecting bars *O* and *P*, in combination with and operating the grain deck *G*, shoe *M*, and shoe guard *H*, the latter being connected to the grain deck *G*, by the connecting bars *L L*, and means for supporting said grain deck shoe and shoe guard, substantially as and for the purposes set forth. 4th. In a separator, a crank shaft *R*, formed with the double throw cranks *r r*, and the connecting bars *O, P*, in combination with and operating the grain deck *G*, shoe *M*, and shoe guard *H*, the bars *L L*, and the hangers *I, J*, and *S, K*, and *N N*, substantially as and for the purposes set forth. 5th. In a separator, a crank shaft *R*, and connecting bars *O O*, in combination with and operating a grain deck *G*, and shoe guard *H*, the connecting bars *L L*, and the hangers *I, J*, and *S, K*, substantially as and for the purposes set forth.