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## RECORD




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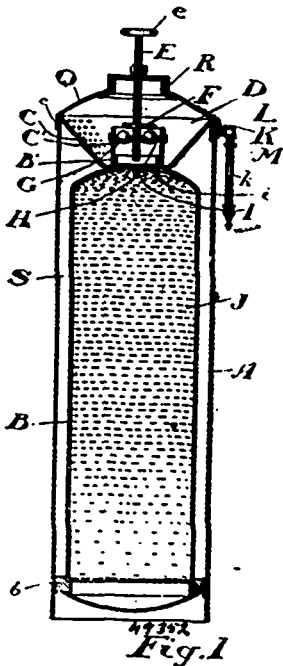
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### INVENTIONS PATENTED.

NOTE.—Patents are granted for 18 years. The term of years for which the fee has been paid, is given after the date of the patent.

No. 49,352. Fire Extinguisher. (*Extincteur d'incendie.*)



James Henry Byrns and George William Booth, both of Toronto, Ontario, Canada, 2nd July, 1895; 6 years.

Claim.—1st. In a hand fire extinguisher, the combination with two cylinders forming two chambers, of a partly perforated dia-

phragm forming a third chamber, a breakable seal closing one of said chambers and breakable balls or vessels contained in one of said chambers, means for breaking the balls and seal, and a valve, substantially as described and for the purpose specified. 2nd. In a hand fire extinguisher, the combination with two cylinders located one within the other, and forming two chambers, of a partly perforated diaphragm forming a third chamber, a breakable seal closing one of the chambers, and breakable balls, means for breaking the balls and seal, and a valve located in the outer cylinder opposite to the perforated part of the diaphragm and outside the third chamber, substantially as described and for the purpose specified. 3rd. In a hand fire extinguisher, the combination with two cylinders, one located within the other so as to form a chamber surrounding the inner cylinder, of a breakable seal closing the neck of the inner cylinder, a cone-shaped shelf or diaphragm, a portion of which is perforated, applied to the ends of the two cylinders, so as to form a third chamber to retain the carbonate, breakable balls or vessels for containing acid, a breakable seal centrally located in the neck of the inner cylinder, means for breaking the breakable balls and breakable seal so as to admit liquid to the third chamber when the extinguisher is inverted and to liberate the acid which combines with the carbonate, and a swivel cock located in the outer cylinder outside the third chamber and opposite to the perforated wall thereof, and which is adapted to shut off the gas charged liquid when the nozzle is turned parallel to the major axis of the cylinder and to turn it on when turned at an angle thereto, substantially as described and for the purpose specified. 4th. In a hand fire extinguisher, the combination of the outer cylinder A, and the inner cylinder B, forming two chambers, a third chamber D, having perforations *c* in the wall thereof, slotted neck *C*<sup>1</sup>, in one of said chambers, saddle H, resting in said neck, breakable seal I closing the entrance to one of said chambers, valve K, a plunger rod E, and a break-bar F, substantially as described and for the purpose specified. 5th. In a hand fire extinguisher, the combination of the outer cylinder A, and inner cylinder B forming two chambers, diaphragm C, containing perforations *c*, the slotted neck *C*<sup>1</sup>, in one of said chambers, the saddle H, comprising cups *h*, for breakable balls G, said saddle having arms *h*<sup>1</sup>, adapted to rest in the slotted neck *C*<sup>1</sup>, and ring *d*<sup>1</sup>, in said saddle H, and heads *h*<sup>11</sup>, substantially as described and for the purpose specified. 6th. In a hand fire extinguisher, the combination of the outer cylinder A, and inner cylinder B forming two chambers, a screw-cap R, forming a cover to the outer cylinder, diaphragm C, forming a third chamber and having perforations *c*, slotted neck *C*<sup>1</sup> in said third chamber, saddle H, supported thereby and forming a support for breakable vessels, breakable seal I, sealing the inner vessel, plunger E, and break bar F, substantially as described and for the purpose specified. 7th. In a hand fire extinguisher, the combination of the inner and outer cylinders forming two chambers, third chamber D, containing perforations *c*, and closed by cap R, and breakable seal I, located in the neck *B*<sup>1</sup>, of the inner cylinder B, a breakable vessel in one of said chambers, means for breaking said vessel and said seal I, and the swivel cock K, located in the outer cylinder A, immediately without the third chamber D, and opposite to the perforations *c*, substantially as described and for the purpose specified. 8th. A hand fire extinguisher, comprising the following elements:—outer cylinder A, closed by a screw cap R, and having a ledge *b*, inner cylinder B, resting on said ledge *b*, and having a neck *B*<sup>1</sup>, a perforated diaphragm C, provided with a neck *C*<sup>1</sup>, having slots *d*, saddle H, resting in said slots, breakable balls supported by said saddle, a breakable seal closing the inner cylinder B, a plunger rod E, having a break bar F, and a valve comprising a discharge branch L, elbow M, central opening *m*, water outlet *n*, swivel joint O, chamber *o*, water chamber P, and nozzle *k*, substantially as described and for the purpose specified.