(No Model.) J. BRITTO. CHEMICAL FIRE EXTINGUISHING APPARATUS.

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No. 332,229.

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Patented Dec. 15, 1885.



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Witnesses Howard H. Kuapp. A. almost

Inventor John Billo

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UNITED STATES PATENT OFFICE.

JOHN BRITTO, OF SOUTH NORWALK, CONNECTICUT.

CHEMICAL FIRE-EXTINGUISHING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 332,229, dated December 15, 1885.

Application filed July 22, 1885. Serial No. 172,266. (No model.)

To all whom it may concern: I I are plug-bolts, which close openings by Be it known that I, JOHN BRITTO, a citizen | which access is had to the valves E G in case of the United States of America, residing at | cleaning or repair becomes necessary. 55 South Norwalk, in the county of Fairfield J J' and K K' are slide-values in the top 5 and State of Connecticut, have invented cerand bottom of the reservoirs B B', respecttain new and useful Improvements in Chemiively, for use in filling and emptying said cal Fire-Extinguishing Apparatus, of which reservoirs. The valves J' K' may have hanthe following is a specification, reference bedles N N, as shown, which extend within easy 60 ing had therein to the accompanying drawings. reach of the attendant. 10 My invention relates to certain novel and L are threaded passages through which the useful improvements in apparatus for extinwater is admitted to the shell. I have shown guishing fire, and has for its object to provide three of these passages; but this is not essena device in which a suitable chemical may be tial, as more or less may be found advan- 65 placed so as to mix and combine with water tageous. 15 passed through the apparatus, and also Mare the outlet-passages threaded, as shown, which shall have a reserve reservoir for chemof which there may be any desired number. icals, through which the water may be directed From the foregoing description of my imat will; and with these ends in view my inprovement its operation will obviously be as 70 vention consists in certain details of construcfollows: The reservoirs B B' having been filled 20 tion and combination of elements hereinafter with the desired chemical, and the apparatus fully explained, and then specifically desigcoupled to suitable water supply, the water nated by the claims. will flow through one of the reservoirs-say In order that those skilled in the art to B-mixing and combining with the chemical 75 which my invention appertains may fully contained therein, and, passing out by way of 25 understand its construction and operation, I the outlet, be applied to the fire to be extinwill proceed to describe the same in detail, guished. The force and pressure of the water referring by letter to the accompanying drawin its passage through the compartment C' ings, forming a part of this specification, in will cause the value G to seat in the passage 80 which b', thus preventing any flow of the water into Figure 1 is a plan of my device. Fig. 2 is the reservoir B'. When the chemical becomes 30 a plan section; Fig. 3, a section at the line xx, exhausted in the reservoir B, it is only neces-Fig. 1, and Fig. 4 a section at the line y y. sary to reverse the valve E, opening the Similar letters denote like parts in the passage a' and closing the passage a, when the 85several figures of the drawings. water will flow through the reservoir B', re-A is a shell cast of one piece or constructed versing the valve G, and passing through the of any convenient number of parts of suffioutlet as before. Now, as the reservoir B is cient strength to withstand the pressure closed against the inflow of the water by the usually applied to fire apparatus. This shell values E G, it will be readily seen that by 90 is divided into four compartments, B, B', C, opening the valves J J' easy access is had to said reservoir for emptying and refilling with cation being had between said compartments chemical, so that by the time the reservoir B'through the passages a a' and b b'. is exhausted the reservoir B will be ready for E is a double valve attached to a stem, F, use. Thus without discontinuing the flow of 95 which latter is pivotally secured within the water a constant supply of chemical is kept within its course, whereby the water is rening a wrench-hold. This valve E is adapted dered more effective as an extinguisher. to close either of the passages a a' for the Having thus described my invention, what I

- 35 40 and C', by means of the partition D, communi-

45 shell, its upper end extending out and formpurpose presently explained. G is a double valve, similar to the valve E, 50 attached to a stem, H, and adapted to close one or the other of the passages b b' automatically, as hereinafter specified.

claim as new and useful is-100 1. In a fire-extinguishing apparatus, two or more reservoirs containing suitable chemicals, each reservoir having inlet and exit openings connected directly with water supply and dis-

332,229

charge pipes, in combination with controllingvalves adapted to close all but one of said inlets, and automatic valves at the exit-openings adapted to be opened by pressure inside

5 of the reservoirs and be closed by pressure outside thereof, whereby a single direct and continuous passage is afforded for the water through but one reservoir at a time, thereby enabling the renewal of the chemicals to be to accomplished as fast as they are exhausted and without loss of time, substantially as shown and set forth.

2. In an apparatus as described, the reservoirs B B', having valves J J' and K K', in

automatic value C, and compartments CC', for the purpose specified.

3. The herein-described combination of the inlets L, controlling-valve E, arranged within the compartment C, passages a a', reservoirs 20 B B', passages b b', automatic value G, arranged within the compartment C', outlets M, and valves J J' and K K', all combined to operate as described.

In testimony whereof I affix my signature in 25 presence of two witnesses. JOHN BRITTO.

Witnesses:

HOWARD H. KNAPP,

5 combination with the controlling-valve E,

A. J. CROFUT.