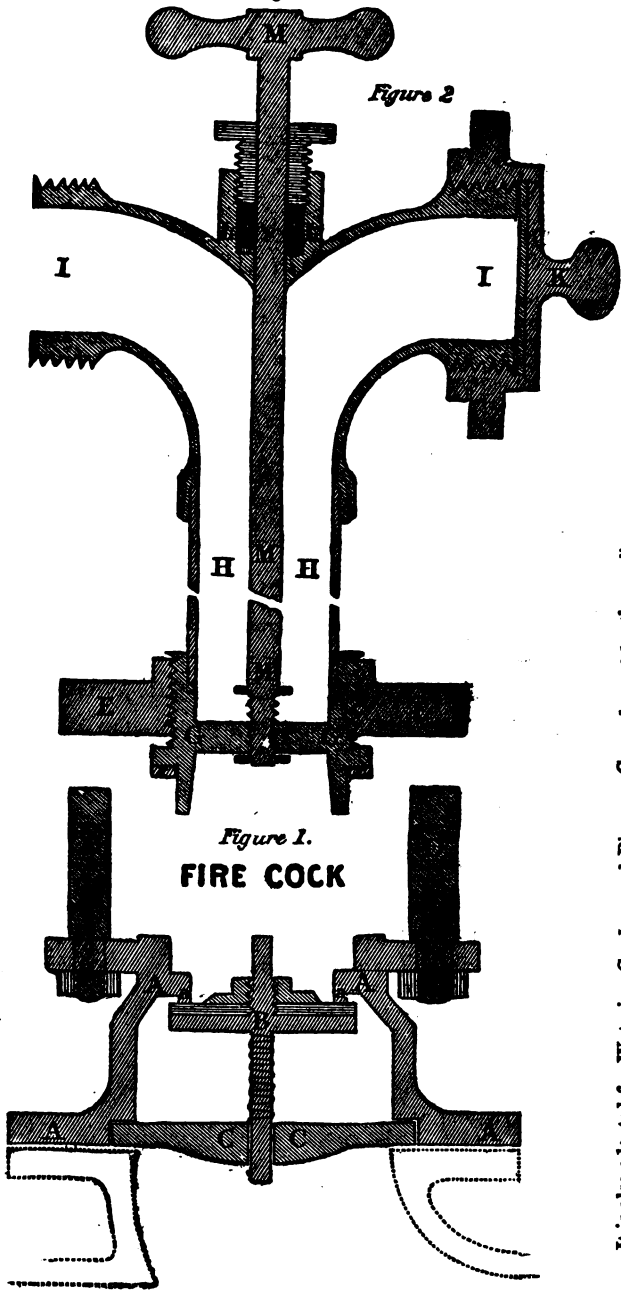


CHRIMES' PATENT FIRE COCK.

CHRIMES' PATENT FIRE COCK is introduced as a substitute for the ineffective Wood Plug, at present in use; it is also, under constant high pressure, a substitute for Fire Engines, as in cases of Fire it can be brought into almost instant operation, without that loss of time and waste of Water which the use of the Wood Plug involves.

It can be also expeditiously, cheaply, and most effectually applied to the watering and thorough cleansing of Streets, Courts, Alleys, Public Buildings, Windows, &c.; and, in Railway Stations, to almost every use for which a free supply of Water is required, including supplying Engine Tenders, cleansing Carriages, &c.

STAND PIPE,
For opening Fire Cock



It is also adapted for Watering Gardens and Pleasure Grounds, and by the application of suitable outlets, for Syringing Fruit Trees, &c. THE PATENT FIRE COCK is especially adapted for high pressure supplies, as from the circumstance of the valve part of it being closed by the pressure of the Water, the higher such pressure becomes, the more is the tightness of the valve secured, and actual safety from leakage ensured.

DESCRIPTION.

The PATENT FIRE COCK consists of a cast iron boss (A), with aperture of such size as may be required, and with flange for connecting it with corresponding flange on branch from Main Pipe, as represented by dotted lines under Fire Cock—the upper, inner edge (a) of the boss being raised and faced, forms a valve seat, a loose valve (B) covered with leather, the spindle of which works in a brass bridge (C), and which, when not in use, is always closed. To the boss are attached wrought-iron inverted ell-shaped lugs (D), to which the Stand Pipe, (afterwards described,) when the Fire Cock is brought into use, is secured.

When the Fire Cock is required to be brought into operation, it is done by the application of a Stand Pipe, (Figure 2,) which, and the mode of its application, may be described as follows:—

The STAND PIPE consists of a copper or iron tube (H), the upper part of which forms brass discharge pipes (I), with screwed ends for hose, having at one or either end a brass screw cap (K), at the diverging of the discharge pipes, is the stuffing box (L). The bottom part of the Stand Pipe forms a brass male screw (G), with leather washer (F), working through a brass female screwed collar (E). The collar has projecting lugs, which passing under lugs (D) of the Fire Cock, firmly secure them to each other, and form a connexion of the Stand Pipe with the Fire Cock, which is perfectly water-tight.

Passing down the Stand Pipe, through the stuffing box (L), is a wrought-iron rod, with brass crutch handle at top, and a male screw at bottom, working through brass female screw at bridge (G), and by turning the crutch handle of which, more or less, the valve of the Fire Cock is gradually opened, the flow of water controlled, and concussion in the pipes entirely prevented; while, at the same time, the sudden strain on leather, or other hose which may be attached, is to a very great extent diminished.

The PATENT FIRE COCK, which, from the above description, will be seen (especially under high pressure) to be of universal adoption, may be safely stated to be cheap, simple, safe, effective, and durable. It can be managed readily by any person who has seen it once used. The screw insures a perfect control over, and regulated supply of, water, preventing damage, either to the hose or pipes, by sudden rush or recoil; and above all, the instrument can be instantly and effectively brought into operation, without any loss of time involved in turning the water off and on in the mains, usually the case under the old system.

From these important considerations it is believed that Water Companies, Insurance Companies, and other Corporate bodies, and that Noblemen, Gentlemen, Merchants, and Manufacturers generally, will avail themselves of an invention at once so efficient and practical, and by the use of which, as far as relates only to danger and loss from fire, so much security can be so easily and effectually obtained.

With regard to another almost paramountly important object—that of Cleansing Streets, Thoroughfares, Courts, Alleys, &c.—it will be sufficient to say, that the PATENT FIRE PLUG was tested at Sheffield, by desire of WM. LEE, Esq., Civil Engineer, who says—“The Patentees have this morning, (Feb. 21st, 1848,) at my request, in the presence of the Mayor, the Town Regent, and many other influential persons, applied their machine to the cleansing of one of our most public thoroughfares, and I am glad to say, with the most perfect success. A length of public carriage-way, from Twenty to Twenty-four feet wide, and 150 yards in length, was washed as clean almost as a house-floor in five minutes.”

Testimonials of the most satisfactory description have been given, after actual trial, by THOMAS HAWKLEY, Esq., C.E., Engineer to the Trent Water Works, Liverpool, Lincoln, and other Water Works; JOHN W. LEATHER, Esq., Engineer to Leeds, Bradford, and other Water Works; WM. LAXTON, Esq., C.E., London; WM. LEE, Esq., C.E., Sheffield; MESSRS. MANNERS and GILL, City Architects, Bath; from the Manager of Halifax, Sunderland, York, Huddersfield, Bradford, and other Water Works; and other scientific and practical men in connexion with Water Works. Copies of which may be had on application to

GUEST AND CHRIMES,

Sole Manufacturers,

BRASS WORKS, ROTHERHAM.