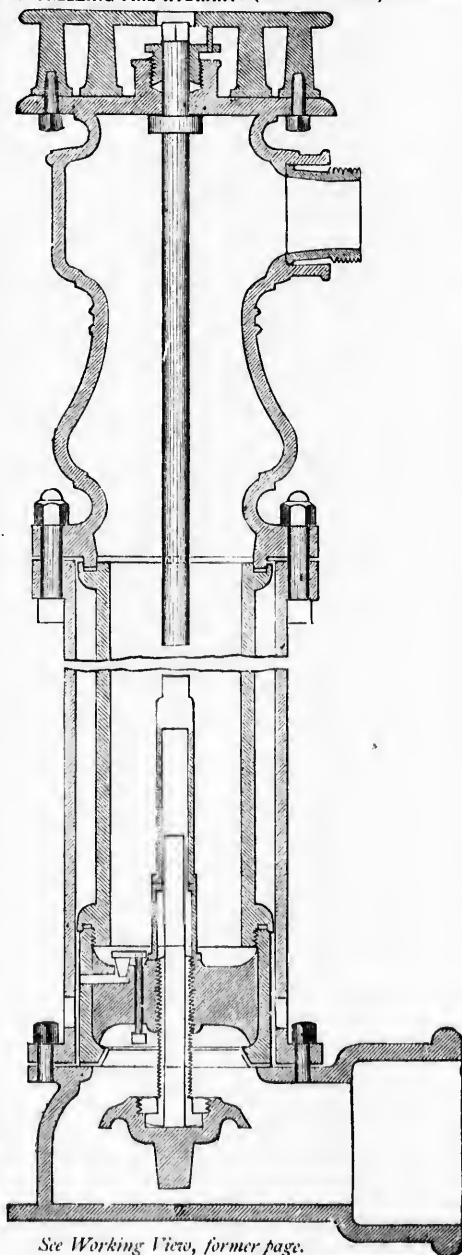


WATEROUS & CO'S ANTI-FREEZING FIRE HYDRANT—(Sectional View.)

This cut represents the sectional view of our improved Fire Hydrant. The outer case is set in the ground at the required depth, and to which the earth will freeze, so as to adhere in severe weather. It has also an inner stem through which water is forced for fire or other purposes. Between the case and stem is a space for air. The valve is at the bottom of case, and so far underground as to be entirely out of reach of frost, and is operated upon by valve rod, the screw and nut of which are immediately above the valve, and so secured as to prevent any vibration under very heavy pressure. The valve seat is of leather, and valves open against and close with current. In order to get at the valve take out the four bolts at the surface of the ground, the inner stem with valve, and the whole working part of the hydrant can then be taken out, examined or repacked and replaced without difficulty, making the joint at the bottom of stem tight by tightening the four bolts at surface of the ground. It is so arranged that when the valve is closed all the water in the case above valve will run out, leaving the hydrant empty at all times except in case of fire, or when water is rapidly passing through it, and as the valve is so constructed that it will not leak one drop, it is impossible for frost ever to affect this hydrant. The act of opening the valve closes the drip and prevents any water escaping while the hydrant is being used. A guard at the top prevents any unauthorized person using them, as they cannot be opened except with lock wrench constructed especially for this purpose. There has no case been reported where one of these hydrants has frozen, and they have been placed under pressure equal to 500 feet head, without leaking one drop. They are of extra weight and strength, and adapted especially for use in connection with *Waterous' Improved System of Fire Protection and Water Supply.*



See Working View, former page.

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