Worthington's Safety Steam PUMP AND FIRE ENGINE.

N THIS MACHINE, THE SIMPLEST POSSIBLE combination of steam with a double acting Pump, is attained. The steam piston is attached to one end of the piston rod, and the plunger of the Pump to the other. The steam piston moves back and forth in its cylinder, currying with it the pump plunger, and causing it to deliver a

CONTINUOUS & POWERFUL

A moment's reflection will show that the interposition of a Crank, Fly-Wheel,

Or other device for producing ROTARY MOTION,

would be not only useless; but wasteful; for the reason that the alternate motion of the steam piston is the very one which it is necessary to convey to the Pump. Therefore, when a crank is employed, the rectilinear motion must utilinately be re-stored in an indirect way. A modification of this simple engine, embracing the advantages of

Great Steam Expansion and Condensation, has been very successfully applied to CHY WATER WORKS.

Three engines, each capable of delivering

Three engines, each capable of delivering 590,000 Gallons per Bay, have been used for MORE THAN TWO YEARS at the city of Savannah, to elevate water 120 feet high, through 2,768 feet of 16 inch main; and a contract has just been concluded with the city of Cambridge, Mass., for a similar service. In regard to economy, the reports show as good a result as has been attained in this department. The undersigned offers the following names and places in this vicinity for reference way Yards at Brooklyn off NATY and the Secondary of the Savannah California; Assay Office, New York, Hospital at Brooklyn Links of STRAMSHIPS AND BOATS, Collines; Bremen; Havre; U. S. Mail Co., Pacific Mail Co., Yankerhile's Nicargua; Savannah; Charleston; Norfolk & Richmond; Baltimore; Jersey City Ferry.
SUGAR REFINERIES. Messrs, Booth & Edgar; Howell & Co., Greer, Turner & Co.; D. Harris; Boston Refinery; Bristol Refinery.

& Co.; Greer, Turner & Co.; D. Haffis; Doson Arthur, Refinery.
FACTORIES, &C. Litchfield & Co., Oli; Hecker's Mills; Lowell Blachery; Thompsonville Carpet Co.; Globe Print Works; Americau Print Works; Lowell Manufacturing Co.; Atlantic De Laine Co.; Pacific Mills; Warner Manufacturing Co.; Hayward Rubber Co.; N. E. Car Spring Co.; Union White Leak Co.; Atlantic Forge; Burdon's Machine Shop; Cooper's Glue Factory.
GAS WORKS. New York. Brooklyn; Buffalo; New Haven; Washington; Baltimere. Alexandria; Jorsey Glty; Knoxville; St. LEON WORKS. New York. Brooklyn; Buffalo; New Haven; Washington; Baltimere. Alexandria; Jorsey Glty; Knoxville; St. LEON WORKS. New York. Brooklyn; Buffalo; New Haven; Washington; Baltimere. Alexandria; Jorsey Glty; Knoxville; Douglacepsie; Lesport; Manhentanville; Rensallaer; Green Mountain Barnum; Richardson & Co.; Mount Savage; Port Henry; Stockbridge.

Henry; Stockbridge.

MINES. Bethlehem Zinc; Reed Geld; Penn. Coal Co.; For-

HATTONS. Bethlehem Zinc; Reed Geld; Penn. Com Co., 2 Creatdale.

GUARRIES. Shaler & Hall; Middlesex; Middletown; Russ & Reid.

R. R. STATIONS. Leng Island; Erle; Hudson River; Chicago & Miss; Cleveland & Penn.

HOTELS. St. Nicholas; Aster House; Howard's; Morchant's; Irving: New York.

DISTILLERIES IN NEW YORK. Ely; Johnson & Lazarus; Barnauf, Betts.

PUBLIO INSTITUTIONS. Asylums at Utica; Trenton & RUBLIO INSTITUTIONS. Asylums at Otica; Trenton & RUBLIO INSTITUTIONS. Asylums at Otica; Trenton & RUBLIO INSTITUTION Connections of the Connection of t