

" within the first minute after ignition, in the second minute more than a ton weight would be required.

" On an impartial consideration of the facts, he was confident that practical concurrences would eventually be given to the conclusion at which he had arrived, that the principle of all future arrangements for the repression of fires, must be a constant supply of water kept at high pressure, night as well as day, and the direct application of it from the mains before the door, by means of a hose and jet. By that arrangement he had proved that a power equivalent to three or four of the best engines might be kept constantly before each door ready for application within two minutes.

" Mr. Buddely, who had attended all the principal fires which had occurred in the Metropolis during the last thirty years, and who had given anxious attention to the subject of the water supply, had testified that by arrangements which should ensure the application of water to fires within even five minutes after their commencement, the progress of two-thirds of them would be effectually arrested. Mr. Wm. Lindley, the Engineer, who had re-built that portion of the City of Hamburg, which had been burnt down, and who had stated that, in that rebuilding he had been guided in his arrangements for house and main drainage, and water supply, by the principles laid down in his (Mr. Chadwick's) sanitary report, had given, in respect to the arrangements of the water supply, the following testimony which was complete and conclusive in itself:—

Mr. Lindley was asked,—

" Is the jet used at Hamburg for watering the streets ?" " Yes ; and the charge has been one penny per foot of frontage per annum."

" What provision is made with the new system of works which you have laid down for the prevention of fires ?" " The mains are large—from 6 to 20 inches diameter—constantly charged at high pressure, being supplied from the one extremity by two Cornish engines, and at the other level from a high summit reservoir, kept constantly filled ; throughout the whole length of the pipe are placed, at intervals of 40 yards, fire plugs of 3 inches diameter in the clear."

" How soon can a jet be applied for the extinction of fires ?" " In two minutes."