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## The Fire Department of Paris.

The fire department of Paris is, in every sense of the word, a military organization. The members barracks, like the gendarmerie, or municipal guard, and are subject 69 constant discipline. The members are chosen as much as possible from the class of mechanics and laborers—such as masons, carpenters, plumbers, &c.—as these men are acquainted with the construction of the laborers. with the construction of the different parts of a building, as the walls, floors, roof, &c.; and they are also accustomed to work in elevated positions with-cut fear, and are adroit in their movements in places where others would be able to do nothing. They are required to understand reading and writing, in order that they may be able to instruct themselves from books regarding their arduous profession, and also be able to make reports. They are required to be sober and temperate, as by an irregular life, drunkenness or gaming, they would necessarily make more expense than their pay would permit, and would thus be tempted to theft or plunder while in the exercise of their vocation. They are also required to be robust, agile, and in good health, in order that they may act with effect.

[mmediately on their arrival at a fire, they are

absolute masters of the locality; all objects of value remain at their disposition and under their charge, still such is the good character of the men and the discipline under which they are kept, that there is very seldom an example of punishment. The offi-cers and men are uniformed, and subjected to the same rules as in the army; every movement is by order from the officers, and the men on duty at a fire are under the same discipline as soldiers on a field of battle, and any neglect or disobedience of orders is punished the same. Soldiers of the line are often recompensed for good conduct by being transferred to the corps of Supeurs Pompiers, as the fire depart ment is named. It often happens that sons of officers of the army enlist in the corps of Sapeurs Pompiers but as simple soldiers, because to be an officer in this corps requires experience and knowledge. The officers are generally chosen from the corps of engineers and artillery of the army, and after sufficient experience become acting officers of the corps The commandant is a member of the staff of the

The corps is furnished with a great variety of apparatus. The pump, or what would be called the ougine in this country, is essentially the same as that in use here, consisting of two cyliniers, five inches in diameter, and an air chamber; the brakes are worked by eight men, and with a discharge pipe of six tenths of an inch diameter, the stream may be thrown one hundred feet high. But although essentially the same, these machines do not at all resemble the splendid, but heavy, lumbering engines dragged through the streets of the American cities by from fifty to a hundred men and boys, with a noise sufficient to disturb the very paving stones. The machine consists of a platform, to which the cylinders and air chambers are fastened, the whole placed on two wheels, and is drawn by three men. These pumps are constructed very perfectly and carefully.

It has often been recommended to make use of larger pumps. This is a matter which might be dis-cussed. In throwing water a great distance, and in a large stream, it cannot fail to be divided into spray, and this is almost immediately converted into steam on arriving at the fire. The steam is converted by the heat into the two gasses, hydrogen and oxygen, which both serve to increase the fire. The combustion of wood is simply the combination of the carbon of the wood with the oxygen of the air, producing carbonic acid and carbonic oxide gases. the same time a part of the hydrogen and carbon contained in the wood unite, forming carburetted bydrogen, which burns, producing the flame. The manner in which water effects the extinguishment of the flame is in preventing the contact of the air with the wood, thus catting off the supply of oxygen, which alone supports the combustion. It is necessary, therefore, that the water should arrive in an undivided state, and with force, on the burning portions, in order to penetrate as much as possible the pores of the wood. For this it is also ne cessary that the man who directs the stream should be as near as possible to the fire, thus making the distance to be passed by the water short, and insuring the arrival in a solid body. This is the reason for the employment of small-sized pumps, but of course they are required in greater number. The men do not stand on the ground and throw the stream into the windows, as is practised here, but endeavor in all cases to place themselves as near as

endeavor in the cases to place themselves as near as possible to the fire.

It is always sought to attack the fire at the most central point, the windows and the doors being preserved as long as possible, in order to prevent the influx of currents of air. To effect this, entrance is

gained, if possible, by the basement and by the stairs, hose being taken in, and the men thus approach the fire as near as possible. In case of necessity the men who enter are furnished with a blouse which covers the head and shoulders, and is tied at the waist. The head is furnished with eye pieces, like the submarine armor, and the supply of air is fur-

in the middle, for convenience of carriage, and having at one end the sides curved in a manner to be able to hook over a window seat. The sapeur takes this, hooks it over the seat of the first window, and passes up with a comrade to that window. Then, standing in the window, and steadied by his comrade, he hooks his ladder over the next window seat above, and thus passes to the top of the building in an incredibly short space of time. He can thus take up with him either one end of the sack alluded to, or the hose, according to the circumstances. This short ladder is much more convenient than the long unwieldy ones in use in this country; but to use them, it is necessary to have men who are expert and practical. These ladders are packed up and placed on the hose cart. In Paris, very strict laws are enforced with regard to the construction of buildings. Every stovepipe, every chimney, has to be arranged according to the laws of safety. All constructions in the city are constantly under the inspection of government officials; and this caution, together with their fine corps of firemen, account for the little destruction of property by fire in that city. During the year 1850 there were in that city of over 1,200,000 inhabitants, only three hundred cases of fire. The Corps des Supeurs Pompiers is composed of 623 sous officers, corporals, and soldiers—five captains, four lieutenants, five sous lieutenants, one treasurer, two surgeons, and two adjutants.

These 623 men are divided into four companies, placed at the four cardinal points of the capital. There is in Paris thirty-eight posts, including four barracks, fifteen theatres, and the quarters of the steff. Each post is furnished with an armed pump, hose, &c. Those of the barracks have seven or eight pumps, and of the staff as many.

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A Universal Steam Fire Engine.

Messas. Editions:—I would propose the following as an improved means of extinguishing fires in Philadelphia: Haild one of the reservoirs at Fairmount, one hundred feet higher than if now is, and in case of fire, send by means of the Fire and Police Telegraph, a despatch to a watchman istationed there, whose duty if shall be to immediately stop off the supply from the old reservoirs and turn on the supply from the new (high), one, when the highestic pressure alone will be found sufficient and ample to throw water, by means of hose alone, and independent of any fire engine whatever, upon the highest building in the city.

The advantage of this system of extinguishing fires could hardly be over-estimated. It would emittely dispense with the present of free engines, with their large accompanying body of men, for a couple of men with a few sections of hose could be upon the ground in infinitely less time, and render more effectual service, than an engine can with its 20 cr 30 men. It would be more effectual than any steam fire-engine that can be made; for, in the first place, it would show the water quite as far, if not farboat and the "Eagline," and, in the next place, it would show the second one of the properties of the connection with the new. "Quintuple The Plum econnection with the new. "Quintuple Fire Telegraph of the condection with the new." (Culmtuple Fire Telegraph of the condection with the new. "Quintuple Fire Telegraph of the condection with the new." (Culmtuple Fire Telegraph of the condection with the new. "Quintuple Fire Telegraph of the condection with the new." (Culmtuple Fire Telegraph of the condection with the new. "Quintuple Fire Telegraph of the condection with the new." (Culmtuple Fire Telegraph of the condection with the new. "Quintuple Fire Telegraph of the condection with the new." (Culmtuple Fire Telegraph of the condection with the new. "Guintuple Fire Telegraph of the properties of t

manent and useful improvement for the benefit of its inhabitants.
Under these circumstances, I say, let us pause before we squander our resources upon steam treengines, which in themselves are very good, and will suit admirably for towns having no waterworks; but for Philadelphia, which was always ahead of her sister cities for her water-works, I say, let us have, I might say, an omnipotent fire engine—one that we can feel proud of—one that is not subject to get out of order, nor that is dependent upon the weather, or the caprices of the firemen for its efficiency. Therefore, I say, let us husband our resources until we can afford (and why not now?) to build a proper machine for extinguishing fires; one that we can hand down to our children, without running the risk of being denominated by them Gold fogies.

NOTICE FO CONTRACTORS.—Sealed Proponais will be received until the 28th day of Dece nber next, at 30 clock, P.M., for crecting the WATER,
WORKS for the West Ward Water Company of the
Borough of Easton.

The proposits will emiyade an Engine of seventyfive horse power, and also an Engine of one hundredhorse power, flow pressure, whiche ere may be adopted, with the necessary Pumps, to elevate the water
from the river Lehigh to the reservoir; the Water
Pries, the excavation for, and the laying of the same,
to the distance of about 30000 feet; the construction
of a duble reservoir, to cover three acres of ground,
and all the necessary Fixtures for a complete set of
Water works, for the supply of the inhabitants and
the extinguishment of fires. Plans and specifications
for the work will be furnished on application to the
President.

HENRY RELLER, President.

Easton, November 24th, 1855