Selettionn.

THE POLICE PIBLE OF THE OCRAN.

The shipwism, or teredo, says a writer in one of our Quarterly Reviews, is a bivalve shellfish, which, as it in revenge for the unceasing war waged by mankind against its near relative the oyster, wems to have everyed to extinguish the vitality of as many numan beings as lies within its power. That power though exercised by an insignificant shellfish, as a prodigious one, for ever since mankind turned attention to hausical affairs, and went to sea in ships, the teredo has inceasingly endeavoured, unfortunately with too much auccess, to sink their marine conveyances. Nor have venuels alone been the objects of its attacks; for many a goodly landing pier has had it riddled into shrede, not to speak of bolder attempts, such as to endeavour to swamp Holland by destroying the piles of her emtankments. The shipworm is the only molluse that has ever succeeded in frightening politicians, and more than once it bee alarmed them effectually. A deptury and a quarter ago, indeed, all Europe believed that the United Provinces were doomed to destruction, and that the teredo was sent by God to pull down the growing arrogance of the Hollanders. In our own country, although we undergo no danger of being suddenly submerged, as our Dutch neighbors might be, we have auffered severely in our dockyards and harbors by the operations of the shipworm, to which the soundest and hardest oak offers no impediment. As a defence against it the under water portion of woodwork in dock-yards has been studded with broad-headed iron Lke most moliuser, the teredo, though fixed when adult, is free in its young state, and, consequent, ly is ensoled to migrate and attach itself wherever mischief can be done by it. Thus ships at sea are attacked, and no wood has yet been found capable of defying is efforts. Even teak and sissor woods, hard as they are, dissolve before it; and though the chemical process of kyanizing timber successfully defeats the ravages of time, it fails before the voracity of the teredo.

By a remarkable instinct, the ship worm tunnels in the direction of the grain of the wood, whatever be its posit on, and thus succeeds in its purpose with destructive rapidity. The tube with which it lines its bore a sometimes nearly two feet in length; it is not always successful, for it the creature meets an impediment sufficiently bard to dely its power, it takes a circuitous course and thus gets round the obstacle. In like manner, it avoids any interference with its fellow shipworms, winding round them in such a way, that at tength a piece of wood attacked by many teredoos becomes transformed into a knot of calcurous tubes. tube is not the true shell of this droaded molusc. That body is to be sought for at its innermost extremity. It consists of two very small curved valves, united at their beaks, and beautifully aculptured on their surfa-The pipe or tube is a time-walled shaft, intended to keep up a communication between the animal and the w. t-ry element necessary for its existence, and to protect the soft body and long fleshy appears of the crea are. How the cavity in which it lives is exeavated is still a matter of discussion among naturalities. There are many shelifish endowed with the instruct to burlow into wood or clay, even hard atons, and it is not yet certain whether they do so by mechanical or chemical agencies, or by a combination of the actions of an augur and a solvent. Many sea-enails as well as bivalve shellish, have the power to perforate solid sulstances; and some of the predactous kind exercise this faculty to the detriment of their brother shellfish, by boring through their outer coverings, and extracting the jurce of their bodies, by means of long, soft, excensive trunks. There is reason to believe that this ope ration is effected by the aid of the silicious teeth which stud their long tongues. These alicroscope teeth are beaut ful objects, exhibiting regular and constant shares so constant, indeed, that by mere inspection of a fragment of the tongue of a sea or land snail, the naturaltel can pronounce to a certainty upon the affinities of the creature to which it besonged, Even its particular genus may be verified; and, in a few years (for this kind of research is as yet novel and only commencad) probably its very species may thus be determined. These teeth are arranged in traverse rows upon the tongue. From an ordinary individual of the common limiet, a tongue two inches in length may be extracted, armed with no fewer than one bundred and fifty, or more bande of denticles, twelve in cach tow, to that in all it may possess nearly two thousand teeth-The limper uses this claborate organ as a rasp with which to reduce the small particles of the substance of the seaweed on which it feeds. In some of our common ?

garden sluge as many as twenty thousand teeth may be counted. Wunderful indeed is this complication of minute organisma.

Throughout nature apparent evis are compensated by unnotived benefits. Destructive as the shipworm unquestionably is, nesertheless we could ill dispense with its services. Though a devastator of ships and pleas, it is also a protector of both; for were the frag. ments of wreck and masses of stray timber that would choke harbors and clog the waves, permitted to remain undestroyed, the loss of life and injuries to property that would result, would soon far exceed all the damages done, and dangers caused by the teredo. The active shellfish is one of the police of the oceanscavenger and clearer of the sea. It attacks every stray mass of floating or sunken timber with which it comes into contact, and soon reduces it to harmlesness and dust. For one ship sunk by it, one hundred are really saved; and whilst we deprecate the mischief and distress of which it has been the unconscious cause, we are bound to acknowledge that, without its operations, there would be infinitely more treasure buried in the abysees of the deep, and venturous mariners doomed to watery graves.

A PICTURE OF MOSCOW.

Imagine a city containing ordinarily a population considerably smaller the .. that of St. Petersburg, and covering an area nearly twice as great. Imagino this city as large in extent as Paris; imagine it containing some 14,000 houses, of which upwards of 500 are churches and monasterios. Imagine it diversified by a great many bills and valleys, and watered by two rivers-imagine all the possible effects of colour combined in the roofs and faces of its buildings; picture these, separated by extensive straggling gardens, boulevards, and terraces, almost every house in its own enclosure and communicating with the streets by little narrow passages or avenues. Conceive the streets themselves undulating and winding with such surprising caprice, that when you are walking through them, every advance of fifty yards discloses to you a new prospect and almost a new city. Conceive this wast laborynth inscribed all over with illuminated symbols of "rade and calling, and with the characters of a stratege at beautiful Eastern language, on which many Et ... an grafts have been made, and which looks like tireak spoilt-imagine the money-changers' tables still in the public place, as in ancient times, imagine a longrobed, bearded population, dispered with a profuse mixture of military uniforms, the variety of which defies onumeration-imagine this immense copital losing itself far away on overy side amidst gardens, groves, and orchards, in a feitile country, bejond which are inhospitable forests, and nogenat town anywhere near. Thus you come upon Moscow suddenly where it rises like an enchanted city in the waste. Then pass through its streets, echaing with the strange but not unmusical, accents of a tongue unspeken and unknown in any civilized land, towards the Tartar battlements of the Kreinlin, rising in dazzting whiteness above the exterior tringe of gardens, bowers, and promenades which border them. Pause a moment to contemplate the intricacy of fantisme terrets in gold, in silver, in sapphie, in the imitation of precious stones in scaly green like the crests of dragons, in bright scarlet, in every bue and overy shade, which springs at different elevations towards the cloudless ky of a Moscow August or September. That wilderness of churches, towers, sterples, palaces, on that eminence, within the broad white sweep of the lofty Calmuck parapetsthat vast, whiminal, or ulent, ancient, more than Guthically varied architectural diadem which crowns the hill above the Moskva-that is the famous Kremlin-No wonder Napoleon coveted it, were at only as an address from which to date the despatches of a conqueror for fourteen davs. But wait a moment. Yonder bufore you is the Spass Varota, or thu "miraculous" gate. The scutry has orders to see that you take your hat off as you pass it, or to use his bayonet. On your left, that unaccountable church with nine towers, not one of which in height, size, shape, or colour, resembles any of the others, is the celebrated Vassili Blodjenie, the architect of which was put to death by Ivan the Torrible, because he said he could build another as full of whimsicality; that is, according to Seythian notions, as beautiful, as admirable as divine. Enter the Kremlin; mount laboriously the high tower of Ivan Yaliki, at the feat of which (fallen with a burning belify from its once serial position) stands on a granice block the king of bells, the largest in the world -400,000lb. in weight (Great Tom of Lincoln doss not weigh quite 14,000lb.) Parring at every stand in

incuce) other enormous bell, which you cannot think of-such are the prospects successively enrolled beneath-you reach the summit. It is by the magical resources of colour that Mossow astonishes and transports the visitor. Truly, it is worth coming two thousand miles meraly for this one spectacle. You stand aloft in the very centre of the very beautiful and wonds rous city, the like of which exists not on the face of the earth-"the mother of Russia," its Mooca, and its Modina all in one, the queen of the ancient feresh object of pilgrimage to every Russian ones in his life, even from the banks of the Obi and the shores of the Eastern Ocean. Deep below winds the Mockya eastward; by aneither painter nor poet can ever communicate the full effect of that which, far and near, surrounds it-that stupendous abundance of contrasted colours and tints-that forest of cupolas and demes, flashing in such variety of form from different degrees of elevation. Not all the treasures of all the tyrants that ever lived, if lavishly expended by one, in single, long absolute reign, even were he sided by all the genius of man in architecture and in art, could produce a similar result. The natural situation, in the first place, was necessary here; and in the second, 700 years of toil in a peculiar and fantastic taste were equally necessary.-Morning Post.

The Journal de St. Pitersbourg of the 10th inst. contains the following manifesto, dated-

" St. Petersburg, Aug. 28 (Sept. 9.) "His Majesty Alexander II., Emperor and Autocrat of all the Russias, King of Poland, being desirous of marking in an especial manner the solemn day in which he assumed the Crown of his ancestors, deigned, under date of August 26, (September 7, N.B.) to promulgate a manifesto of grace, the principal disposition of which we basten to reproduce.

His Majesty's first thought attached itself to the grave events which marked the outset of his reignupon those days of trial, and at the same time of glory, in which the Emperor received such memorable and such unanimous proofs of prowess, of love, and unshakable fidelity from his subjects.

"For the purpose of perpetuating the remembranco of this noble conduct of the Russian people during the whole durstion of the formidable conflict which has just been happily settled, his Majesty, as a recompense for these exploits, and also as a souvenir, has deigned to institute a commemorative medal, which shall be worn, according to the regulations, on the ribbon of St. Andrew, St. George, or St. Vladimir, by all those of his subjects in the civil or military service who took any part in the events of the late war.

" This medal, similar to that which the Emperor has conferred in particular on the heroic defenders of Sebastopol, who have astonished the world by the longest and most stubborn defence that the annals of nations have retained any record of, will recall to the most remote posterity the military and civit virtues of which all Russia has given proof in the grand namonal trial which be has just passed through.

" The military, who have shed their blood for their country, the militia, who rose in an instant from the soit of Russia; the clergy, whose eloquent words and unbounded charity have never been wanting to the national cause; the illustrious Russian aristocracy, which, in imitation of its ancestors, has again shown itself foremost in the ranks of valor and devetion: the commercial, industrial, and operative classes, in fine, who have made such great and such noble sacrifices for their country menaced, have all an equal claim on the gratitude of the Emperor, who thanks them this day, and invokes on the entire nation the blessing of God the Mercital, in the hope that it will soon be granted to His Majesty to efface even the last trace the public and private sufferings that Russia has borne so worthily.

" In the accomplishment of this excred purpose the Emperor commences by granting great immunities to the provinces of Tauris, Cherson, Ekatericalast and Archangel, as well as to the whole sea-coast of the Baltic, and in general to all the provinces that bave more particularly borne the brunt of the late campaign. Furthermore, and in order to extend as far as possible the circle of his liberality, his Majesty has been pleased to confer on the whole empire the benefits of a general boon, the importance of which can be measured only by the immensity of the sphere it embraces. The Emperor most graciously dispenses the whole of Russia from every burden of military recruiting or conscription for four consecutive years, unlass, which God avert, the necessities of war should interthis gigantic tower (rising, remember, from a lofty em- | pose obtacles in the execution of this measure.