Canadian Armamenty.

(From the London Morning Post)

TO THE EDITOR OF THE MORNING POST.

Sir,-I have just read your able article on the manufacture of Palliser guns in Canada. It may interest your readers to know that Sir William Palliser has not stipulated for any pocuniary reward from the Canadian Government, nor for any royalty or commission from the manufacturers. They have secured his system of manufacture free, plus the advantage of his training. Canada deserves great credit for making a start in ordnance manufacture, and the money being spent in the country will probably disarm those members of Parliament who might otherwise object to send large sums cut of the Dominion for such objects as cannon. Lieutenant-General Sir Edward Selby Smyth, K.C.M.G., commanding the military forces of the Dominion, has given every encouragement to Sir William Palliser, and Lieutenant-Colonel T. Bland Strange, R.A., an officer of the highest scientific attainments, and mspector of artillery to the Dominion, has frequently visited the factory and encouraged the manufacturers with his advice. Let us hope the other great colonies will follow the example of Canada; there can be no more certain way towards completing the armament of the out ying portions of the British Empire. As to the guns, there are no better. It is gradually being conceded that for competitive purposes Sir William Palliser's is the best system known. He puts barrels of coiled wrought ductile iron loose into easings, which may be of east iron or The easings not being shrunk on, the guns are therefore in the state most fitted to endure heavy firing, and the acedents attending it, such as shell bursting in the bore, chase, or muzzle, and sometimes jamming in the bore. It is to be hoped the new Heavy Gun Committee, when it does make a beginning, will order a thorough competitive trial. The Caradians have had the advantage of watching the great competition in heavy ordnance, extending over three years in the United States, which has ended in the complete victory of Sir Wil am's guns. The Un ted States flag-ship Trenton is about to visit the Thames; her armament is composed of heavy Palper guns made by private firms in America. Should there e such a competition in England it will be interesting to note Sir William Palliser be copied in the use of loose tubes and factile metal, and if he will thus have to face his own guns in isguise. I do not think he has anything to fear from guns hich are made on the shrinkage system with hard steel tubes, ed which therefore are already undergoing a bursting strain thout any charge at all.

Your obedient servant, OBSERVER.

United States Sen Coust Fortification.

eplorable Condition of Our Defences Against Foreign Invasion .- Annual Report of General Wright .- Thousands of Millions of National Wealth at the Mercy of an Enemy.

w York Herald, November 8.7

WASHINGTON, NOT 7, 1880.

Washington, Not 7, 1882.

Son ral H. G. Wright, Chiof Engineer of the Army, in his official sani report to the Secretary of War, calls attention afrish to the best condition of the country in the marter of preventing the special power for on our sea coust, should we happen to the standard required by the changed diffection is brought to the standard required by the changed diffection is brought to the standard required by the changed diffection is brought to the standard required by the changed diffection is brought to the standard required by the changed diffection is as follows:—

Lead to modern architecture. The more important portion of the other architecture, and the unition ten-fold the expendic that would be needed to thoroughly protect our coast against which is not the chimal of the chimal soft the chimal soft

victorious enemy could kindle by his shells? Or is it easy to overrate the tribute such a city would pay for exemption from that
balanity?

According to Secretary of War Poinsott it has been clearly demonstrated that the exposure of employing a sufficient body of
troops, either regulars or militia, for a period of even six months,
for the purpose of defending the const against attacks and fients
that might be made by an enemy's fleet, would exceed the cost of
fereeting all the permanent works deemed necessary for the defence of the coast. One hundred thousand men divided into four
columns would not; be more than sufficient to guard the vulnerable points of our maritime frontier, if not covered by fortifications. An amount of force against an expedition of 27,000 men,
which if composed of regulars, would cost the nation \$30,000,000 por
annum, and it militia, about \$10,000,000, and, supposing only one
inall the force to be required to defend the coast with the aid of
forts proporly situated and judiciously constructed, the difference
of expense for six menths would enable the Government to erect
all the most necessary works.

THE REMEDY.

of expense for six menths would emable the Government to erset all the most necessary works.

THE REMEDY.

Our fortifications and torpedoes, then, must close all of our important harbors against an enemy, and secure them to our military and commercial marine; second, must deprive an enemy of all strong positions where, protected by naval superfority, ho might fix permanent quarters in our territory, maintain himself during the war, and keep the whole frontier in perpetual alarm; third, must cover the great effice from attack; tourth, must provent, as far as practicable, the great avenues of interior navigation from being blockaded at their entrances into the ocean; fifth, must cover the coastwise and interior navigation; and sixth, must protect the great naval establishments

Fortifications must command from the shores exterior to our harbors all the waters from which the enemy can reach our cities and navy yards with his shot and shell. The lathour mouths and all the narrow passes within them must also be occupied, and if nature has not afforded all the positions decimed requisite, others must, it practicable, be formed artificially. Fortifications should succeed each other along the channels of approach and in our fire while lying within our harbors, should be succeed in passing the outer line of works. The harbor mouths and channels must be obstructed by lines of electrical torpedoes for holding the enemy's vessels under fire of the fortifications, previously constructed and stored in the latter, and laid, in the event of war, in systems, the plans of which have been carefully olaborated in the same time be obstructed by lines of electrical torpedoes for holding the enemy's vessels under fire of the fortifications, previously constructed and stored in the latter, and laid, in the event of war, in systems, the plans of which have been carefully olaborated in the same time be obstructed by lines of electrical paraties of shoulding the enemy's vessels under five one of having its own system recorded in chambers

[The above report is instructive to us Canadians, if we cared to profit by it. Our coasts are in a worse condition as regards artilor ry armament than those of the United States. Fortunately for us, our inland waters do not require monster guns for their defence, our lake harbours could easily be secured by torpedoes protected by comparatively light guns anch as are now being converted at Montreal on the Palitiser principle. Torpedoes can only be searched for by light craft working in shore to dredge up the communicating wires, or counter exploided by torpedo boats. Such exist could not work under the dre of our dipr. converted guns, if the latter were protected by simple carthworks revetted with from band gabions. Such guns would cost \$3 weach, and such chrishwork as have persistently been recommended in the annual reports of the senior Inspector of Artillery, would cost but a comparatively trilling same. They could be thrown up by the Militia themselves, and would inst half a century. They would, moreover, be capable of coping with such improvised war vessels as could appear on our Inland waters—his treaties between Great Britain and the United States forbidding the construction of war vessels on the Lakes before the deciaration of war. British gun boats up the St. Lawrence should be the first to appear on lake Ontario. These conditions are fortunate for us, as a few such guns as are in vogue in Europe would absorb the whole Militia voge.—Fig. C.M.R.] us, our inland waters do not require monster guns for their defence,