"The second experimental attack upon the double bottom of the iron paddle steamer Oberon took place on Friday last week, off the east end of Stokes Bay, near Portsmouth, under the supervision of the War Office Oberon Committee, presided over by Sir William F. Drummond Jervols, K.C. M.G., C.B., Royal Engineers. The Oberon was built at Deptford, as far back as 1841, and structurally, therefore, she must be a weak, as well as an old vessel. For these experiments a double bottom has been given The outer skin plates now cover the her. cellular spaces built upon the old bottom of the ship to represent the bottom of an ironolad being of 13-16ths and Jinch plates. The bottom of the Oberon, thus prepared, is supposed to represent the bottom of Her Ma, jesty's ship Hercules in strength. This being premised, the results to be obtained by fir ing submarine mines at decreasing horizontal distances from the Oberon's bottom, will furnish to the torpedo committees valuable data relative to fixed distances from which sunken miner can be exploded with certain effect upon the double bottoms of ironoisd At present the Oberon Committee ships. appear to be confining their experiments within those limits, but as they proceed the "fish" or other forms of moving topedo may possibly be amployed. At the previous experimental attack upon the Oberon (4th inst ) a charge of 500 pounds of compressed Waltham Abbey gun cotton, in 90z. discs, saturated with fresh water, and primed with about one pound of dry cotton in a water proof bag, was sunk at a distance of 100ft. horisontally from the Oberon, in a watertight iron case, in 43 fact depth of water, at the time of explosion, about elack tide. The firing wire from the priming charge to the shore at Fort Monkton, a distance of about 800yards. The mine was exploded, and, as Sir William Jervoise had anticipated, without damage to the Oberon, or to the condenser on board. The ship, had, of course been lifted up by the explosion of the mine, and loose things on board generally shook up. Two lambs on board susta ned no injury, An examination of the vessel in dock the day after the experiment proved that the double bottom under water was also entirely uninjured.

"The experiment last week was arranged to be a repetition of the first experiment in all particulars, except in the distance of the mine from the Oberon, which was 80 feet horizontally from the vessel instead of 100t. as before. There were, however, two other alterations in the conditions which must be noticed. The Oberon was now moored a little further off the edge of the sheal than on the provious trial, and the mine was exploded in a depth of water of about 52ft. instead of 48ft., as on the previous occasion. The other alteration was that the gun cotton was anturated with fresh water to the extent of 1½ per cent. above the amount of

saturation on the first trial.

The president and members of the Oberon Committee, comprising Colonel Sir F. W. D. Jervois, R. E., Captain Singer, R.N., Lieut.-Colonel Stotherd, R.E., Lieutenant W. H. Hall, R.N., Mr. Abei, chemist to the War Department, and Lieutenant J. Townsend Bu. knoll, R. E., secretary, let Southsea and Portsmouth Hirbour about two p.m. in the Royal Engineer steam hunch and the Excellent's steam cutter for the Oberon, which lay moored in her old position off Fort Monckton, at the east end of Stokes Bay. Other steam and gun vessels followed with members of the Naval Torpedo Committee, neval and military officers, War Office ticket helders, &c., and soon there

was a goodly ring of vessels assembled round the Oberon, but at respectful distances.

" High water slack, soon after three p.m., had been selected as the best tide for making the experiment, and fairly punctual to the time the mine was fired by the Engineer officer ashore. An immense fountain-like body of water and black mud rose into the air to a height estimated variously from 150 feet to 200ft, which in falling again flooded the Oberon's deck. It expended threefold the column of water and mud thrown up in the last experiment; but here there was a greater fresh water saturation of the 500lb. gun cotton forming the charge of the mine, and the latter had also a greater head of water over it than the previous mine had. The Oberon still floated, however, without the still had been still floated. any visible injury to the exterior of her hull, and on exumination it was found that no injury whatever had been done to the sides of the vessel, to the condensor, or its tubes. The loose things on board as on the previous occasion, were generally shaken out of their places, and the old and rotten wooden planking of the decks in one or two places was started; but this was the extent of damages discoverable even in this direction. It is, however, impossible to say whether the double bottom of the Oberon, represent ing the double bottom of the Hercules, had suffered any damage or not by the explosion until she had been examined in dock, for which purpose she was at once towed away into Portsmouth Harbor.

"The War Office programme of the experiments gives the subjoined figures:—"Weight of Oberon's hull before the outer skin and frames were added to represent Hercules double bottom, 590 tons. Present weight 926 tons. Weight of condensor, slinging caste to hull, &c, 30 tons. Forty four crusher guages are fitted to the starboard side of the ship, the side attached. Over each side of the vessel there are also suspended by 3-inch ropes, 12ft. long, 18-pounder round shot, each shot having a crusher gauge, but with a piston of smaller weight than the other gauges. The weather, a light wind and shooth water, was very favorable. The next experiment will most probably be made some time during next week."

The experiments on the Oberon(an account of which we copy from Broad Arrow of August the 29th) is a decisive proof of the fallacy of attempting to use the torpedo as an effective weapon of warfare. A very trifling amount of time spent in calculating the expansion of the gases (which in the real ex plosive force in gunpowder, gun cotton, glycerine, dynamite, or any of the full minates) would show that the resistance offered by water being equal on all sides but capable of secummulating laterally as the out of the force employed would compel the energy of the charge to be expended upwards in the line of least resistance and that except it was exploded directly under the hull of the vessel it could do no positive damage. Until the operators can place the torpedoes so that a yessel must pass over them and then that they shall be able to explode them on the instant, their use as wenpon of offence or defence is more than doubtful. United States Army and Navy Journal speaks of the above experiments.

"The second series of experiments to test the effect of distance on the results of the explosion of electrical mines (or as come call them, stationary torpedoes-practically the same as Major Abbot of the Engineers has been constructing at Willet's Point), has been completed in England. At the first trial the Oberon was placed with 100 feet of water intervening between her and the mine, which was charged with 500lb. of gun cotton, equal to about a ton of gunpowder), and the result was that the vessel, so far from being blown to atoms, was comparasively unharmed, and if she had been are enemy's attempting the entrance to a harbor, she could have entered it in spite of the explosion of the torpedo. At the second experiment a similar torpedo similarly charged was used, but the distance to the Oberon was reduced to 80 feet; and the results were to all intents the same. As the London Engineer remarks, they differed only in degree rather than in character from those obtained at the long distance. The vessel as much shaken, and everything that was not firmly fixed was violently dislodged from Still the Oberon, if a hostile its position. vessel, could have gone on in spite of the disturbance. There was some leaking but it was afterwards discovered, on examination, that it was due to the injury effected on some bullast tanks from which the water poured out. At the next experiment the distance will be reduced to 60 feet. Whenever the result of this—and it may be the disablement of the vossel—the experiments show, what we contended in our strictures on Major Abbot's mines, that their power as: offensive weapons has been greatly exagge-rated. So many elements besides distance enter the problem of their action that it is not safe to rely on them for the defence of important harbors. Electrical mines fired by an observer on shore, even with the aid of guns mounted in fortifications, are by no means a sure defence for harbors. They means a sure defence for harbors. will not protect a deep harbor against a first-class modern ironclad fleet. The exfirst-class modern ironclad fleet. periments with the Oberon indicate that a vessel might be provided with out riggers or other appliance, that would sweep away the mines within sufficient distance to allow the ironcla a to pass with safety. The torpede question it will therefore be seen, i by no means solved by these anchored magasines."

"Last winter the announcement was made in England that all the soldiers of the war of 1812 were to be pensioned by the Imperial Government. In accordance with the announcement, the veterans of the Colonial Militia who served with the Imperish troops made application for the pension through the Dominion Government, but informed, as we stated some time ago, that the pension would be given only to soldiers in the regular army. The Government of the Dominion have been considering the matter, and have determined to sak Parliament for such an amount as will give a small pension to an survivers of the grand old veterins w , as part of the Provincial forces, lined the nontier of British America, and maintains. I their country's independ-They well carned this in their deence. clining years, and will not have reason to feel burt that the regular soldiery were ponoionod, while they were left to suffer from neglect."

Tun foregoing paragraph from the Ottawa Times of 19th October, must be particularly gratifying to the people of Canada. There