little water, may lie in shoal water along the ship channels, thus rendering an approach of the deep draught iron-clads impossible. But, we now propose to go into the deep water with our light draught dow vessels It needs no demonstration to show that a hold, enterprising commander of a heavily armored ship, with his superior number of men, may board and capture these low decked vessels unless protected by the steck acrayers, the clongated shells which may be instantly exploded whenever requir cd. It is quite true that the deck scrapers are of little utility in monitors with lancing ted at mor; since these vessels might be disposed of by their antagonists, by a few well directed rifle shot at convenient range, as demonstrated by the rifle practice at Lin, sponga

"Our roaders who are familiar with the subject are aware that Captain Eriesson's defence of the monitor system, published in this and leading European j menals, bas been trased on the assumption that the turret plating, as well as the side armor, is composed of sold plates. We are not aware that any successful demonstration has yet been published disproving his proposition that, for light-draught, no other torm of iron clade can compete with the monitor. We need acarcely remind our renders that several northern, European: powers early adopted the monitor system; but the significant fact demands special attention, that the German Empire, with the light of experience and in the face of all objections raised, is now building monitors for its coast defence. In view of the foregoing facts the country, no doubt, expects to be in formed of the causes which have operated to induce the Navy Department to abandon the monitor system so far as to deem it unnecessary to substitute solid plating for the inefficient luminated armor. We have no reason to suppose: that Congress would have refused to grant an appropriation necessary to procure solid armor, if informed that without it we are unable to make any defence against even a weak enemy posses sing fron clad-ships and modern rifled ord nance. Unfortunately our opponents understand the matter perfectly well; they know that the heavy ten meh armstrong rifles of the Arapiles, at short range, can sond their pointed projectiles in at one side and nearly out at the other of our lamina, ted turrets. At long range, the penetration will be sufficiently deep to strew the turret flooring with fragments of broken holts and plates, as shown by employing moderate charges during the Swedish target practice before referred to.
We strongly recommend the Secretary of

We strongly recommend the Secretary of the Naty to ask Congress again for an appropriation to put our best monitors in order, stating specifically that it is for the purpose of covering them with solid agmor. That Congress is willing to perfect these vessels we infer if on a recent grank of \$50,000 merely for apparented plan (Wilmart's) of raising the terrets by hydraulic pressure—more particularly as the plan was of questionable utility, it having been demonstrated by competent judges to be inch only imperfect, but dangerous, on the ground that any defect, the smallest leak for instance, of the hydraulic apparatus, would redder it impossible its Typn the turpet \$500,000 would probably supply deck acceptors for this impossible fieet of monitors.

A writer in the current number of Naral Science mentions as one of the principal means of harbour defence in this country "batteries of guns manned by the Royal

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Artillery." Now the fact is, that as matters stand at present we should, in the event of war and a threatened invesion, have comparatively for Royal Artillery available to man our point batteries, and it is undeniable that we should have to trist mainly to the Militia, mill Volunteer corps for what may be called the gurison artillery defence of the country. For it must be remembered that in the eveni of a European war, a large extra force of Royal Garrison Artillery would probably be required for Malta and Gibraller, and possibly for some other foreign stations. Then the Field and Horse Artillery Latterius at home would have to be But oo a war establishment, which would be done by filling up the horse from the field, and the field from the garrison batteries. Moreover, it is by no means improbable that aloyadya, it is by no means improvable that one or more new fie'l autillery brigades would be raised, and this would occasion a further draft on the garrison branch of the regiment. Accepting to a recent return, the garrison artiflery force in the United Eingdom consists of \$350 Royal Artiflery, 13,050 Militia Artillery, and 34 000 Volun-teor Artillery. From these figures and from what has previously been stated, it is easy to see, that in the event of war, we should have very few coast "batteries manned by the Royal Actillery"; and it is therefore obvious that the burden of the work would fall upon the Militra and Volunteer Artilfall upon the Militr and Volunteer Artiflery. This circumstance greatly chances the importance of our auxiliary artillery—that is to say, relatively to the regulars, this auxiliary artillery occupies a more important place in our military system than the auxiliary infantry, because in the event of war, the former will have to act more independent than the latter pendently of the regulars than the latter. Such a consideration should prompt the authorities to encourage volunteer artiflery corps in every possible manher, and it should also stimulate the members themselves to attain a high standard of efficiency, when they reflect that if their services are ever required for the defence of the country, they will not like the rifles—be Lrigaded with regulars, but they will probably be called upon to man some fort entirely by them-solves. And, it need hardly be said, that there is no branch of the Service in which Volumteers can become so thoroughly efficient as in the garrison artillery, for its various duties involve on the whole the individual exercise of a larger amount of intelligenco than infantry work requires. As regards this qualification, Volunteers, being taken from a higher social class are undeniably superior as a body to the regulars; and; moreover, as a poly to the regulars; and, moreover, as applient exercises do not domain. The "wooden wall ingulity and absolute silence enforced at company or hatfallion drill they are less irknome to civilians, and, therefore, often more cheerfully and satisfactory acquired. In view of the very important part which it thus appears, the Voluntage artillery must also in pears, the Volumeer artillery must play in the defence of the country, it might be well for them to be contented with the sphere of duty above indicated, and notaim at distinguishing themselves in field battery work. d, branch which upon the whole, it seems better to leave entirely to the Royal Arlithory. As we pointed out in our remarks on the Volunteers. List week, there is a great probability of these valuable troops of the volunteer arthory)being greatly, augmented or very long by the conversion of the rillo volunteers of our manifold districts into artillery. "Illo sconer a movement of this fort takes place spontaneously the more offective will the ritillery be when the bom ing change takes placed to warmould may 3,10

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THE foregoing from Broad Arrow shows that the opinion with respects to the nuxiliary forces is undergoing a rapid olymgo in England. It is not over two years since Sir Horn Gnarr recommended that volunteer artillery should be suppressed, and, gave what was then called good military reasons which were endorsed by military organs for the measure. We have always untertained great contempt for opinions advanced in favour of mere specialities, and can only say that at the time we thought the gall mit General was altogether swayed by the narrowest of profesional idlosynomaids inasmuch as the training of an efficient artillery man demanded in the recruit more than the ordinary intelligence to be found in the rank and file of an army, and that the volunteer force supplied what was wanting in that particular abundantly. From the tone taken by our contemporary it is evident that this fact has been at last recognized, and that the difficult problem of providing sufficient gunners for home defence is about being solved in a perfectly natural as well as national manner and that the volunteer force of Greet Britain will furnish the vast mass of the army of national defence, leaving to the regular forces alone the duty of foreign service. In any future contest it is evident that the services of a much larger body (in proportion to the whole force) of artillery than thit hitherto assigned to army corps must be employed, and it would be wisdom to set about training those men in time-moreover actions in the field will be fought with guns of positions' and not with light field pieces in the manouvring of which much more cavalry drill is requisite than special artillery knowledge-whereas "guns of position" require all the training and the highest at that of a sp. ial arm of the

If we do not greatly err the introduction of the "Moncrieff System of Mounting Ordnance" will so far revolutionize field artitlery that there will be two batteries of guns of position to one of field artitlery so called, and as the managuring of heavy guns require training as well as intelligence the Volunteer Organization at home, and abroad is the proper mode by which a force peculiarly adapted for artillery service can be supplied.

We are indebted to Lt. Col. MoPhercov, of the Militia Department, for a copy of the last published. "Army List." Dec. 3th, 1873.

A spoond destatch to the Ruly Telegraph from 'St Petersburg says an article in-the frenty between Russin and Bokhant, abolishing slavery, is directly due to the exertions of Secretary Schuyler, and, all members of the American Legation a St. Petersburg."

The financial condition of flavailities becoming still more unsettled. The trades are striking for payment in gold.