bered, the infantry fire is dead. While the battery on the placing expended ammunition by sending up wagon-limbers to pivol, flank can continue its fire without intermission, that on be exchanged for the empty gun limber, which, when rediled, the reverse flank should trot into a naw position to do so, long can again come up. It might be advisable to do away with before the infantry columns have deployed to deliver fire or wagons and have only an increased number of limbers, for facility of movement, &c. dom to advance should begiven to a battery commander, who, it must not be forgotten, holds a tactical unit, and, if he is a fantry in combat.

The following simple practical rules may be of assistance to

battery commanders and others whom it may concern:

1st. If you cannot march you, will never fight. A few galled, lame or broken-down horses among your teams, mean the disgrace of abandoning a gun or ammunition wagon.\* In this case prevention is the only remedy, which a steam-power commander cannot ensure, unless in time of peace he has forged a chain of responsibility, every link of which bears a steady strain, from the subalterns commanding divisions, the serges ats in charge of sub divisions. down to the individual driver.

2nd. Regularly trained Artillery collar-makers, shoeing smiths and wheelers are very important personages, and should be well supplied with tools and materials. Otherwise, mistiting harness, that would produce many galls, would seem to be inevitable with Volunteer batteries turned out suddenly.

3rd Your limber gunners must be able to lay their hands on every article in the limber boxes, 2 and 3 greasing wheels,

screwing up bolts, &c.

4th. As you generally have to commence the fight, never lose an opportunity of getting permission for your gines near the head of the column of warch, except in a wooded or close country. Under all circumstances, in addition to your eclaireurs in front, have a couple of intelligent mounted markers, non-commissioned efficers, well in advance, to seek out passages over ditches,

swampy ground, &c.

5th. Procure maps, even when familiar with the countrythey are necessary for directing others-and habitually use

them, folded the size of your sabretache.

6th. Note carefully every cross-road or lane, as a means of breaking away to a flank, from which you will beat be able to issist your infantry deployment by partially enfilading the enemy's line.

7th. Avoid the converse of the above, that is getting jammed dip between the leading battalious of infantry, whose deploynient will probably be checked unless you cover it, while the rear battalions press up and crowd round you, restricting your

8th Keep an eye on your neighboring infantry, with a view to mutual support in case of a rush by the enemy. Escort-duty of guins is distasteful, except there is a strong feeling of cameederic for the artillery. Infantry are unable to keep up, and being aight, perhaps, of both guns and their own battalion, ander off disgusted. Cavalry are little use against a resolute be of skirmishers. The proper escort for guns would be the seming cavalry—the long-talked-of mounted rillemen!—and deir place, the exposed flank of the battery, dismounted and toder cover when practicable. If they formed part of

Mot so with Cavalry, whon a sore back means only a dismounted tropper.

ity of movement, &c.
10th. In advancing into action, the commander rides several hundred yards in front to select a position and avoid a culmen of decision, will not let slip golden opportunities of action de-sao; he is accompanied by his trumpeter and a mounted by any undue waiting for orders which may have miscarried in marker from each division to act as range-fluders, carrying the confusion of battle. He should, however, remember the a pocket sextant and a measured piece of fishing line on a reel, golden rule of Taubert, i.e. "Divisional Artillery, is merely an to take a base on Colonel Drayson's plan. The battery is auxilliary arm, and that the infantry, and not the artillery, is brought up, silently by the sword-arm signals of the commander, the chief element in an action. It is, therefore, the duty of who will endeavor to bring up guns without being seen by the that artillery to comprehend the object momentarily in view, enemy, unlimbering in rear of a slope to avoid the teams are with quickness and accuracy, and powerfully to support the in- pearing on the sky-line, and running the guns up by hand when practicable.

11th. The points for consideration of a position are, in order

of importance:

(a) Efficacy of fire;

(b) Cover for the pieces and limbers, if possible, the reverse of a gentle slope permitting guns to be withdrawn till the muzzles only can be seen; best fulfil this condition, or 20 minutes with the entrenching tools will give cover if no hedge or bank is available; a screen of bushes or a Canadian rail fence with a little earth thrown up gives confidence;

Position of the other troops, your own and the enemy;

(d) Facility of advance;

(c) Facility of retirement.

These conditions are seldom united in an equal degree. The commander must at once decide which is the most important to secure the object of the engagement and which to give up as least essential. No position can be called a good one that does not fulfil' the first condition.

12th. Avoid unmasking the position by opening fire until a worthy object is within range, which should not be above 2,510. yards, the limit of field-glasses by which the results of fire, can

be ascertained.

13th. Open fire deliberately from the leeward gup,, firing a little short of the estimated range, increasing and correcting the elevation of the remaining guns, firing more rapidly as the range is ascertained or comes to close quarters; but never waste ammunition, which encourages an enemy, unsteadies your men and is difficult to replace. "If ordered to fire, (uselessly in your own judgment), obey, but fire as alovily as possible."\* Opening fire at too long ranges is the vice of all arms and armies; restrained fire raises the confidence of those who practice it, and none can do 50 more steadily than, the Epplish, while it depresses those who have to advance on a comparatively silent foe,

14th. "Guns should bear on that arm of the enemy's fonce which threatens most—as a rule, the enemy's infantry, or cavalry, rather than their artillery." When you do fire on an opposing battery, not in self-defence, but to save your own infantry being shaken before a contemplated assault by the enemy, let it be understood in your own battery that you conceptrate on their centre gun (common shell and perquesion fuzies); and when silenced, turn attention to that on its right, then

left, and so on.

15th. Guns being useless while limbered up, and a change of position necessitating a fresh estimate of range, the number of changes of position in action should be a ninimum and the pace a maximum, provided it is steady.

pace a maximum, provided it is steady.

16th. The subaltern's command of two guns should never be separated—they are battle compades, and form as complete a with breast harness, which they should carry on their riding unit as an infantry company. They are often detached from the battery for advanced guards or guards outgots. It is not contained to be alone; alternate fire is essential.

17th. Having a favorable position, keep it until the enemy. They are often detached from the battery for advanced guards or guards of a gunt to be alone; alternate fire is essential.

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Orders of Frederick the Groat to his Artillery.