

[ 2567 ]

MERSEY STEEL & IRON COMPANY, *Liverpool*.—Gun blocks; guns; armour-plates; and the first battery-plate ever broken.

[ 2568 ]

MILLER & PEARER, *Glasgow*.—Brass cannon.

[ 2569 ]

MONT STORM, WILLIAM, 3 *Rood Lane, E.C.*—Patent breech-loading military and sporting firearms.

MONT STORM'S BREECH-LOADING ARMS.—Breech-loading arms may be divided into twelve different systems or "species," and there are various "varieties" of at least eleven of these species. The twelfth species (Mont Storm's "SELF-SEALING CHAMBER SYSTEM") is of comparatively recent development, and its plan is adapted to universal application to every style and class of both military and sporting arms, or the ready conversion of the present muzzle-loading arms to breech-loaders. Some of its many points of merit may be enumerated as follows:—

It has a chamber, but no lever—lateral, vertical, or other—to catch in the accoutrements, dress, or bridle-rein.

It is confined to no special ammunition.

The charge may be varied, but the arm cannot be overloaded.

The explosion is within a solid chamber; the recoil is upon a solid breech.

The connection between the stock and barrel is strong, graceful, and "FIXED:" thus it is adapted for the use of the bayonet for infantry.

The opening and closing of the chamber is effected, with unprecedented ease and rapidity, with the mere finger and thumb, even when the weapon and the soldier are lying upon the ground; and in the case of cavalry in action, the left hand remains entirely free, to govern the

reins. It is a perfect MUZZLE-LOADER. The force of the explosion, irrespective of special ammunition, CLOSES the joint, in contrast to its effect in other breech-loading arms: thus there is no escape of gas.

It cannot stick fast, or clog, by rust or powder dirt.

There is no sliding or abrasion of one surface upon another, in opening and closing the breech: thus there is no friction or wear.

In the insertion of the cartridge, the ball constitutes the handle or ramrod—an important feature.

It cannot be fixed, accidentally or purposely, till the chamber is locked in place; and the locking device is solid, "self-acting," and INFALLIBLE of operation.

It is extremely simple, involves no delicate parts, and cannot easily get out of order.

There are no specialities of lock, stock, barrel, or mountings; thus there are no mysteries in its repair, it is of economical construction, and any approved species of "SELF-ACTING PRIMER" may be applied to it.

These arms may be thoroughly and quickly cleaned without the application of WATER.

Though these arms are only now about to be brought before the public in this country, they have received more approbation and praise, at numbers of public trials before Governmental and military authorities in America, than any arm hitherto known.

[ 2570 ]

MOORE & HARRIS, *Military Contractors, Great Western Gun Works, Birmingham*.—Sporting guns, breech-loaders; English volunteer prize rifles, &c.

GUNS, No. 5,035 AND No. 5,050.

Bar and back-action sporting breech-loading double guns, with improved method of holding the breech ends of the barrels down to the breech-piece. One of the shortcomings of the ordinary breech-loader being, that the hook-shaped contrivance for holding the barrels down, is not immediately under the strain with which it has to contend in the discharge of the gun; the centre of the breech-piece being cut away, all the strain acts upon the attaching of the turnpin (in the case of the breech piece), and upon a hook between the two barrels (in the other direction). The guns exhibited are constructed upon an improved, more perfect, and much simpler plan; the loop upon each barrel receiving the end of a steel tumbler-shaped bolt, by turning the lever to guard when the gun is closed, which bolt turns under the surface of the breech-piece, and is consequently much safer; the parts are less subject to wear either by use or the vibration of shooting. The weight of these guns does not exceed that of the ordinary muzzle-loader of same calibre.

Rifles, double and single, are also made on this principle, to which its advantages are quite as valuable and appropriate.

Price of improved breech-loading double guns, complete in case, with all implements, and leather cover, forty-five pounds (£45).

DOUBLE GUN, No. 5,052.

Bar double gun, so constructed that all the detonating is completed on the breeches, protecting the joint of false breech from the flame of cap or corrosion; and the side lock-screw passing through the iron, renders a well-proportioned and properly-striking hammer compatible with the above arrangement.

A very desirable feature in this gun is, that the part of the stock which is first destroyed by use, in the ordinary gun, is perfectly protected; and also, none of the sharp edges (which present themselves round the detonating of the regular bar gun), when the barrels are taken from the stock.

Price complete, with implements in case, and leather cover, thirty-five pounds—(£35).

Specimens of gun-barrel tubes, in the rough, oxidated, to show the variety of twists and figures produced by the manner of working Rose's patent iron; also, specimens for machinery made by the same process as the gun-barrel iron, but on a larger scale, showing more than four thousand square rods of iron and steel, as seen by the presented ends of the specimens; and which would be maintained and seen by microscopic power if drawn down to the sizes of the smallest specimens. The extent to which it will endure friction, without increasing temperature, is one of its valuable qualities for machinery and gunnery. Specimens of the same for cable-links.

[ 2571 ]

MORTIMER & SON, *Edinburgh*.—Single rifle in case, improved rifling and sight, breech-loading gun, double rifles.