

Scientific American

A WEEKLY JOURNAL OF PRACTICAL INFORMATION IN ART, SCIENCE, MECHANICS, CHEMISTRY AND MANUFACTURES.

VOL. IX.—NO. 5.
(NEW SERIES.)

NEW YORK, AUGUST 1, 1863.

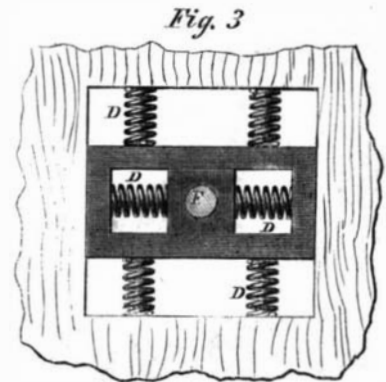
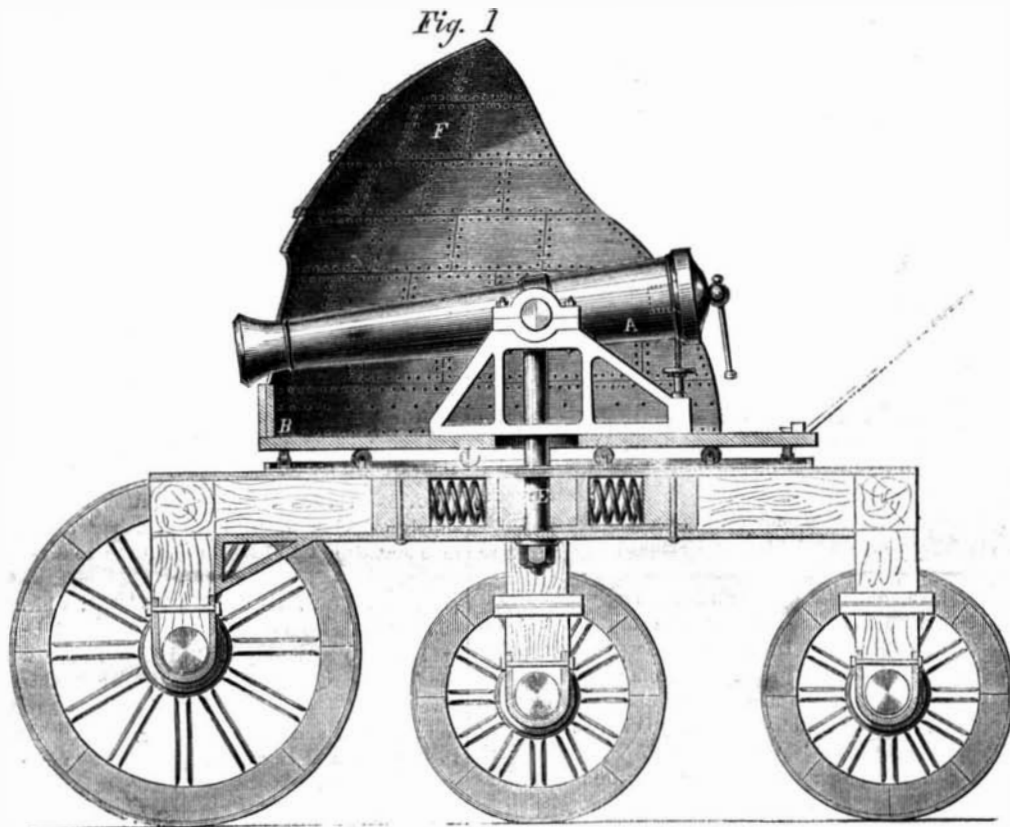
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Improved Gun Carriage.

The saving of human life is of the utmost importance at all times; but more particularly where great

suit of a retreating enemy. The gun, A, is placed on a turn-table, B, which is mounted on solid friction rollers, on an ordinary carriage, C. These friction

medium of the pivot, E, and take up the recoil of the piece effectually. The shield, F, is attached to the turn-table, B, and of course moves with it; and is



issues depend upon the existence of certain persons; as in battles, where the fortunes of the day may turn upon the ability of the artillerymen to hold a designated point on the field. Sharpshooters are so universally employed by all nations at the present day, and they are so efficient, that gunners especially, within range, are very soon picked off, and their pieces consequently disabled. To prevent such a contingency as far as possible, the revolving shield represented in the accompanying engravings has been invented, to screen the artilleryman from danger; and every one will concede that the principle of the shelter is perfectly correct. The inventor's description of his machine is here appended.

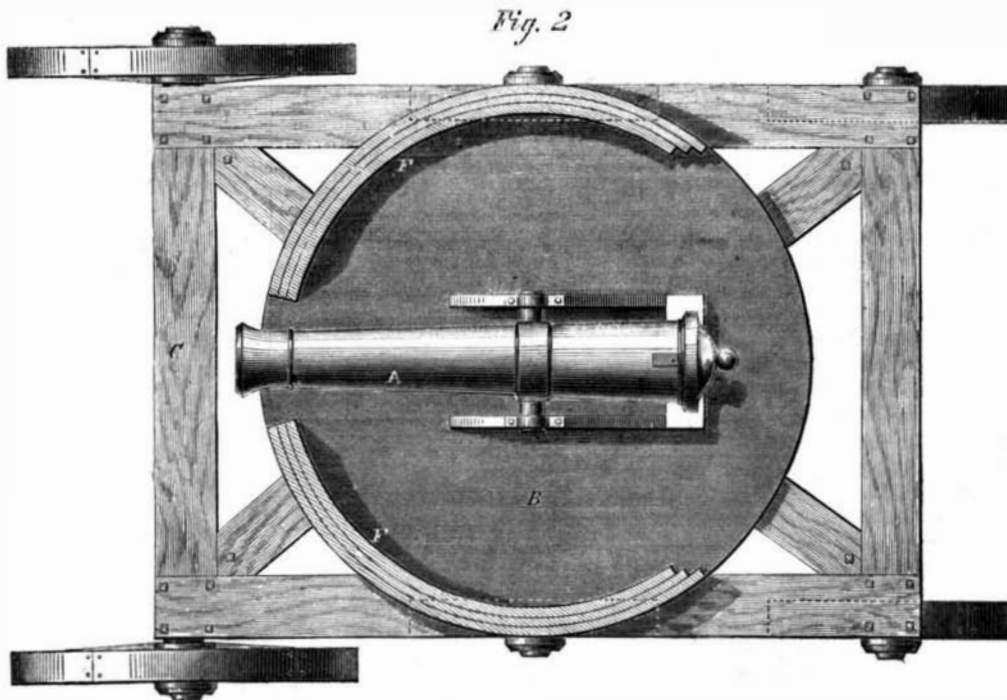
The advantage of this improvement is, that the gun can be brought into action, the horses withdrawn, and the gunners protected from the fire of the enemy, by means of a shot-and-shell-proof shield. Even were the carriage in motion, the gun can be fired, which is a great advantage for an army in pur-

rollers run on a smooth wrought-iron ring screwed to the carriage, so that the gun and shield on the turn-table may be moved in any direction with facility, by means of a hand-spike. The gun is attached to a box of strong springs, D, seen in an enlarged form in Fig. 3, which move in any direction through the

pointed to its position by moving the turn-table with an ordinary hand spike in any direction, so that, no matter from what quarter the assault is made, the shield will readily turn so as to repel the foe. The effect of such a shield as this would be salutary upon the nerves of the gunners, if in no other respect, as it would enable them to aim their piece with great confidence, relying upon the impenetrability of the iron to protect them.

The gun is a breech-loading (8 inch howitzer), and it will be easily seen that both during the processes of loading and firing the gunners are fully protected. The cost of the shield, carriage, turntable and appurtenances, without the gun, will be about \$850. The weight of the shield, carriage, turn-table, &c., without the gun, will be about 2,500 lbs.

This invention was patented on Sept. 16, 1862, by F. A. De Mey, of Brooklyn, L. I.; further information may be had by addressing Chas. Sholl, Civil Engineer, 77 Cedar street, New York, room 23.



DE MEY'S REVOLVING SHIELD GUN CARRIAGE.

horse could be driven through them!"
Pretty convincing testimony.

A new class of six-wheel express engines are building at London, which are to have 17-inch cylinders, and 4 coupled wheels, 7 feet in diameter.