

a tract, "On the Manufacture of Gunpowder, as carried on at the Government Factory, Waltham Abbey (1857)." ¹

On becoming attached to the Royal Small Arms Factory, at Enfield, he immediately took a marked position; and if his life had been spared, he would have taken a very active and useful part in the War Office Manufacturing Department.

He was a general favourite in the branch of the service to which he belonged, and his decease was deeply and deservedly regretted by a large circle of friends.

CAPTAIN CARLTON THOMAS COLLINGWOOD joined the Institution of Civil Engineers as an Associate, in the year 1857; and died in India on the 7th of March, 1860.

It is regretted that repeated applications have failed to obtain any materials for a memoir.

COLONEL SAMUEL COLT was born on the 19th of July, 1814, at Hartford, Connecticut, U.S., America. He was of Scotch descent, his father, Christian Colt, being the son of an early settler in Connecticut.

Sam Colt had not the advantage of careful education, and at a very early age he ran away to sea, and made several voyages to India. He had latent mechanical talent and great energy, and it is stated that he was constantly devising some supposed improvements in the tackle, &c., on board, for which the commander did not award him the credit which he imagined was his due; and he turned his attention to a repeating fire-arm which should be also a breech-loader, and thus afford to the solitary pioneers of the Western States the immunity from danger which only could be obtained by rapid firing, in case of attack by the Indians. Whilst at sea he is supposed to have produced the first wooden model of the revolver pistol which bears his name; and it has been asserted that, on his return to America, he fell in with another untaught inventor, like himself, whose attention had also been directed to the same subject, and that he received from this accidental acquaintance the first notions of the necessity of adopting mechanical and automatic machinery for the production of these weapons. For some years he had to struggle with great difficulties, and during that period he turned his attention to other subjects; but always keeping in view the production by machinery of the several parts of the repeating fire-arm, and for this he invented and adapted various machines. He received his first patent in 1835, and established a factory in Paterson, New Jersey, but

¹ Library Inst. C.E. Tract Svo. vol. cxx.