

of James Brown of East Ham, made a steam "mechanical plough" in 1806, having been inspired to have been capable of pulling a team of horses. Brown was further inspired by a steam "dig", a portable engine, but again this was a light machine and not a carriage.

In 1807, an invention of steam carriage (called Galloway's) was made by James Galloway & Co., London. It was a small, light machine, with a horizontal boiler, a small cylinder, and a small chimney. It was a portable engine, but again this was a light machine and not a carriage. In 1807, an invention of steam carriage (called Galloway's) was made by James Galloway & Co., London. It was a small, light machine, with a horizontal boiler, a small cylinder, and a small chimney. It was a portable engine, but again this was a light machine and not a carriage.

carriage was interesting, but it was a small machine, and it was not a carriage. In 1807, an invention of steam carriage (called Galloway's) was made by James Galloway & Co., London. It was a small, light machine, with a horizontal boiler, a small cylinder, and a small chimney. It was a portable engine, but again this was a light machine and not a carriage.

capably executed but failed by being too lightly made for the duty it had to perform—ploughing. Nevertheless, it was capable of running a distance of twelve miles in one hour and showed what was possible.

After this attempt to design a traction engine from first principles, interest seems to have turned back to the idea of making the common portable engine self-moving.

In fact, the increasing use of the portable engine had posed to many active minds, including that of Thomas Aveling (who has left a record of his thoughts on the subject), the absurdity of a relatively powerful prime mover being dragged with more or less difficulty about the countryside by a team of horses.

Richard Rich of Birmingham, a builder of portable engines, converted one to geared drive in 1833 and fitted it with Beysell patent wheels, the forerunner of the modern tracked vehicle. Richard Garrett and Sons of Leiston did the same a few months later with an engine which was shown at the Royal Show at Chelmsford in 1838. Another builder who offered his portables as self-movers, using the method of chain drive patented by Williams in 1837, was John Smith of Coven, Staffordshire. This village manufacturer of inventive mind never achieved more than a modest success before his death at the relatively early age of 31 in 1879. Clayton & Shuttleworth built two chain driven ploughs for Fowler in 1858.

The idea of the chain drive added to an otherwise ordinary portable engine now began to be applied by several manufacturers—Garrett in 1838, Thomas Aveling in 1839, followed by Savage, Dodman, Barrall, Tuxford, Clayton & Shuttleworth, Tucker, Lampin and others, gradually evolving into a distinct species, which (except for Tuxford who used a vertical enclosed engine) retained in the main the characteristic portable engine arrangement of cylinders over the boiler with crankshaft carrying a large flywheel just behind the chimney, but in other respects gradually



A well-known photograph of an Aveling chain drive traction engine of the early eighteenth century showing the flywheel and the arrangement of the chain sprocket shafts and the position of a shaft driven from a single bracket, the same shaft carrying the drive pinion.



A very early portable, probably dating from the late eighteenth century, showing the arrangement of the flywheel and the arrangement of the chain sprocket shafts and the position of a shaft driven from a single bracket, the same shaft carrying the drive pinion.

(A. G. P. Collection)

From covered chain engine by Charles Barrall, in general conception very similar to the Garratt but in several points different. The wheels are of straight iron of built-up construction where those of the Garratt are cast, the boiler is the opposite hand and the mechanism and work differ.

(A. G. P. Collection)



The Age Of The Traction Engine

Robert Arthur Whitehead



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