gentleman who had a stop watch, that the maximum speed was fifteen miles."

Extract from the Liverpool Times.

"This invention (Winans) appears to possess considerable merit, and is likely to be of much practical utility.—It appears that, by manual power applied by winches, a passage between this place and Manchester, (34 miles) may be effected in about three hours, at about 6d. a head. This will be the actual cost of the power, but the proprietors of the road will probably charge 3s. 6d. or 4s. which will leave an immense revenue on the carriage of passengers only. It is intended to convey along the rail-road between this place and Manchester, not only bipeds, but animals of various kinds, and carriages have already been constructed for the accommodation of cattle and pigs! We, on Monday, saw a carriage constructed for the accommodation of the latter respectable class of quadrupeds, which certainly is a much handsomer and more commodious vehicle than those in which his Majesty's liege subjects were accustomed to travel fifty years ago."

Extract from the Liverpool Chronicle, 26th September.

"Railway Experiments.—On Wednesday, several gentlemen assembled on the level piece of railway between Edge-hill and the Wavertree road, to witness the trial of railway carriage wheels on Mr. Winan's principle. The carriage and wheels weighed

	0 *tons.*	11 *cwt.*	1 *qr.*	3*lbs.*
and was loaded with pig iron,	3	0	1	21
making a total of weight to be moved,	3	11	2	24

A contrivance for ascertaining the requisite power or weight to move the above was used, that had previously obtained the sanction of two eminent engineers. The carriage and weight were moved along the road at various speeds, and with 10lbs. 12lbs. 15lbs. 17lbs. and 19lbs. from which the following proportionate results were deduced.

1*lb.* moved 334 and kept it moving $4\frac{1}{2}$ miles per hour.
1*lb.* " 470 " " " 3 " "
1*lb.* " 616 " " " $2\frac{1}{2}$ " "

When motion was first given by other power to the carriage, then

1*lb.* with 617 kept it moving $4\frac{1}{2}$ miles per hour.
1*lb.* " 800 kept it moving.

When 12lb. 12 oz. and upwards were used to bring the carriage and load forward, it invariably gained in speed.