A MECHANICAL HORSE.

The following description of a new invention on exhibition at the great Paris "show," is taken from a private letter:

"I was fortunate enough to be present yesterday evening at a private view of this wonderful invention. The throng at the Exposition is so dense in the daytime that any attempt to work it during the exhibition hours was impossible. Through the kindness of M. de M., whose acquaintance I made in 1858, when he was attache at Washington, I formed one of fifty persons provided with special permits. On entering, groups of the Cent Gardes made me think the Emperor was present, but I did not see him until the middle of the exhibition. I saw, among the curious, Nasmyth, of hammer celebrity, and Whitworth, arm in arm with Howe, of sewing machine notoriety.

"The iron horse bears no resemblance to its equine namesake. Imagine a trunk-shaped box aboutseven feet long, and wide enough for a man to saddle, and about five feet high; the whole concern mounted on five wheels; the wheels concealed, however, under the machine. It is covered with leather, and has a saddle, only the saddle is very high in front and back, so that there is no chance of being unhorsed. In front is a steering apparatus of the simplest altr kind-two silk cords-and just before the saddle is a steel bar, which regulates the speed. If you pull it up you start the machine; pull it higher up, you increase the speed; if you depress it you decrease it until a point is reached, when the apparatus stops.

"The inventor, quite a young man, commenced winding up the machine with what seemed to me to be a crank motion, and as I distinctly heard the clink of the ratchet, I therefore supposed it was worked by a coiled spring, but I have reasons since to think I was mistaken. I suppose it took two minutes to wind it, when he mounted it and started it by pulling up the steel bar. It moves gradually off, so that for the first minute I could walk alongside of it; but presently it started at the speed of a fast horse, and in a moment more was lost going round the curve of the circle. "I suppose you know the grand Exposition is a series of concentric rings, each one devoted to a peculiar branch of industry. The one the machine was running on was the Numero Quatre section del Mecaniques, and is among the largest, measuring some yards more than an English mile. It seemed to me to be incredible that he should have performed the circuit in two minutes and twelve seconds. A hearty clapping of hands greeted the machine as it came careering on, and gradually stopped without any apparent trouble. "I noticed the emperor, generally taciturn, loud in his applause, clapping his hands as lustily as I did, and I was assured by M. de M., that he had never seen his majesty on any occasion before show the least signs of commendation. The inventor then said that he would put it to its speed, but to do this he must give the machinea start. He then wheeled round, and just like a jockey starting a horse, got it up to a maximum; and as he passed us he seemed to be flying. The circuit was made in fifty-eight seconds. A new salvo of applause met him as he brought the machine to where the emperor was standing, and I must say that I felt some just emotion when the emperor took the legion of honor from his button-hole and placed it on the young inventor's breast. "M. told me that its endurance, if I may use the term, was extraordinary; that at its highest speed it would keep going on for four hours. I was led to believe that the mechanical power was the real motive power. Anyhow, the secret is well kept, the emperor having, with the inventor, the only knowledge of it. M. also told me that in Vincennes, a battery of artillery was to be moved with it, instead of horses. "I may add that I saw four persons mount it, and it moved much more rapidly than would a carriage. An interesting experiment was made as to its capabilities of going over a rough country. Several loads of dirt were shot over the floor, and it passed over it with apparent ease. One thing that I remarked was that there was a perpen-dicular play in the wheels, and that as a difficulty was surmounted, one wheel would be higher than the other, while the body was on the same plane. "I think that it has been placed purposely in a retired part of the Exposition before this exhibition, so as not to attract too much attention, and I learn

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