

FIG 2

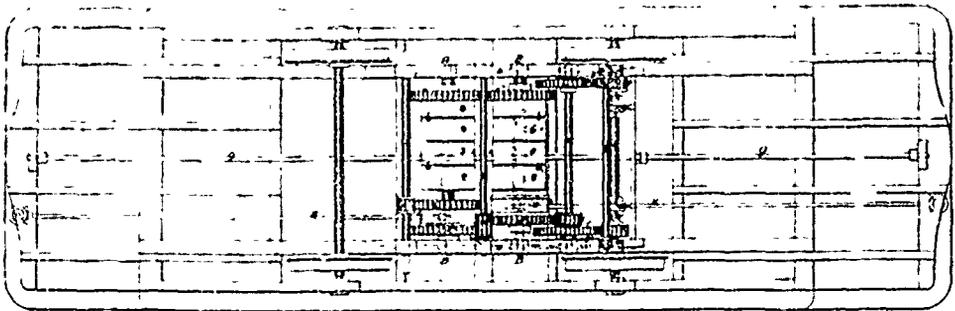


FIG 3.

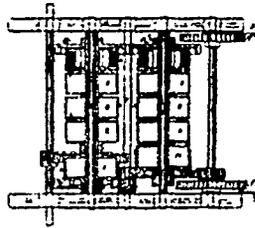
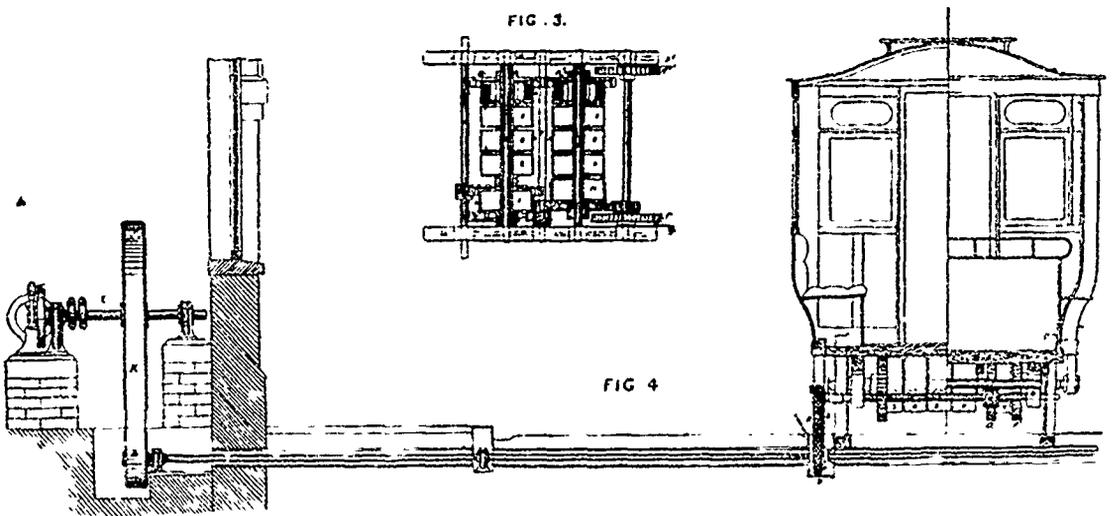


FIG 4



SELF-PROPELING TRAM-CAR.

gineers, so as to fit up a tramway car, or cars for actual trial upon some of the lines of metropolitan tramways in London, for which, indeed, the arrangements are now nearly complete, so that the practical working of the system will speedily receive a thorough public demonstration. The Edinburgh Tramways Company have also, as we learn, entered into an arrangement for satisfactorily proving the power and utility of the system, and the invention is calculated to attract careful and attentive consideration in all quarters, both at home and abroad. We have ourselves had opportunities of seeing the potentialities of the principle, both in the model and in full working size; and even in view of the sweeping change in the tramway system which is involved in its complete success and adoption, we cannot withhold the conviction that all the important

practical difficulties have been effectually surmounted, reducing its practical realisation to mere matters of detail. The working of the springs is entirely free from noise, perfectly smooth, easy, and effective, and completely under control, for application, cessation, and reversal. As an automatic motive power, free from all objection from other and contemporaneous kinds of traffic, and calculated to supersede entirely the necessity for the employment of horses, with all its concomitant cruelty and inconveniences, it appears to us to open up an encouraging and satisfactory prospect to the directors and shareholders of tramway companies, and to supply the means for the fullest development of intercommunication in urban and suburban districts.—*Iron*