Philadelphia, Reading & Pottsville Telegraph Co. Reading, Pa. Oct. 28 18 73 Friend Pope In hastily writing to you to day in reference to serval methods of loperating signals, I fingot to show & mention that for single track purposes the line wire W should be convected at both to the continuous line of sails A, as shown at a a and the 2 Batterie showed be arranged so as to neutralize of not neutralize, when a section of track is not occupied by an orgine or car, or probably it will work satisfactorily with One battery at one end, and dispense with Battery BI at other end and not have line connected to sails at a'. It hen a section is occupied by an logice or train, I think a sufficient will flow through tragnets M and M' to work them satisfaily. Do you not think so! A single Battery and a line wire can also be amonged to work a number of seguals by demaquetism on the showingle I showed you in the

cars a short time ago.

Philadelphia, Reading & Pottsville Telegraph Co. Reading, Pales 30 21873 Triend Pope In looking over my paper to-day relating to railway signals, of came across a sketch of a method which I derised over a year ago, for operating railway signals, and which I had intended testing, but away to a press of other matters, it was overlooked and excaped my memory. I intend however soon to give it a text and patent it. I think it will fine a simple and reballe method, it is as A' A shot section about 100 ft more a less and insulated at a from Section 42 which is nearly a mile magnet M is connected with A'A' by wies, Battery B & is connected with rails A2 A by wies. You will observe by afre method that safety signal can be arranged, so as not to be displayed when a train is morning in desection of anount when sails A2 A are occupied by an engine or train, or when Battery to orany its connections are out of order or when a sail or a suited is mispeaced. By the following arrangement of a line with W and a continuous line of rails , one battery can be arranged to operate a number of signals by the alove method, $\frac{A^{2}}{A^{2}} = \frac{A^{2}}{A^{2}} = \frac{A^{2}}{A$

Philadelphia, Reading & Pottsville Telegraph Co. Reading, Pa._____18 The arrangement hereinbefore described is new and is not shown in any fatente to my knowledge. What do you think of the method? In addition to the methods recently shown you, I have densed a ranety of other methode by using a live one in connection with the bails for railway signal purpose but if the method besein show will with satisfactory of prefer it to any other I have derived or seen, as it is simple, and will meet the wants of R. R. Co. Jonn huly