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ENGINEERS OFFICE, PARLIAMENT

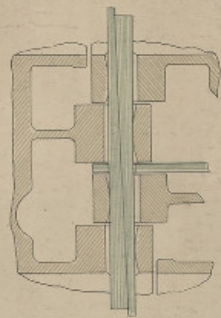
IMPROVED PERMANENT-WAY. PATENTED.

FIGS. A, B, C, D show a description of Permanent-Way in which there are two patterns of Castings employed, so that this form of Permanent-Way consists of four different parts (not including the rail).

The advantages of the Improved Permanent-way over the ordinary pot sleeper are as follows.

- (1) That it renders the use of wooden or other keys to secure the rail in the chair unnecessary -
- (2) That by its use the rail is suspended and is not therefore injured on the bottom table -
- (3) That the rail cannot work loose as the action of the two halves of the chair always keeps the jaws tight against the rail -
- (4) That the castings are not so liable to breakage as the ordinary pot sleeper is either during carriage or when laid in the road -
- (5) Simplicity in number of parts

FIG. E shows a description of Permanent-Way in which all the Castings are alike, so that in this form of Permanent-Way there are three different parts (not including the rail)



SECTIONAL PLAN,
SHOWING KEYPED JOINT IN FIG. A.

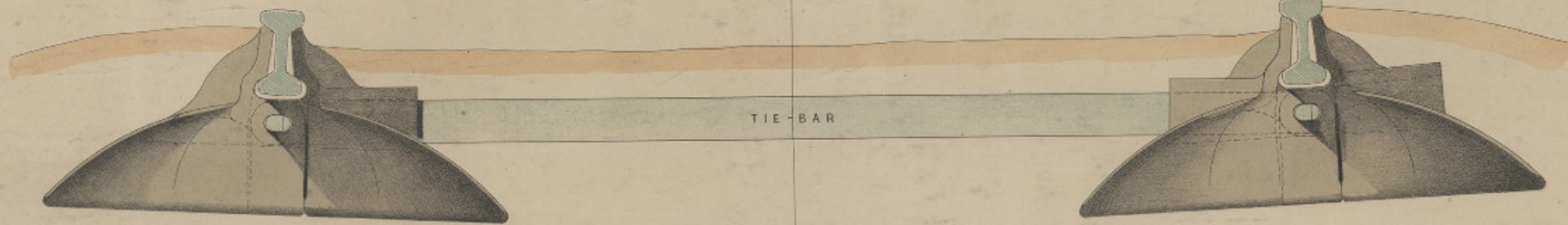


FIG. A. ELEVATION.

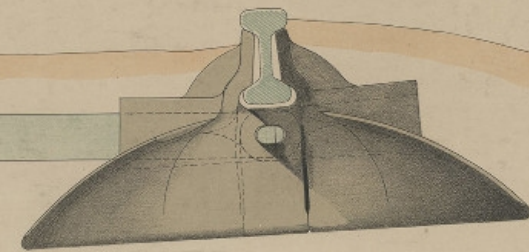
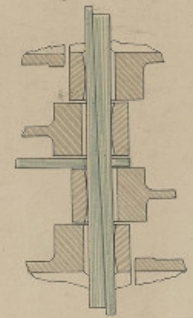


FIG. E. ELEVATION.



SECTIONAL PLAN,
SHOWING KEYPED JOINT IN FIG. E.

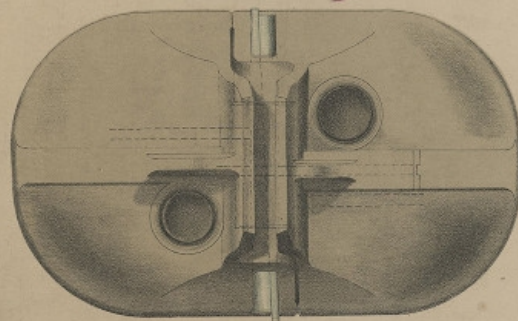


FIG. B. PLAN.

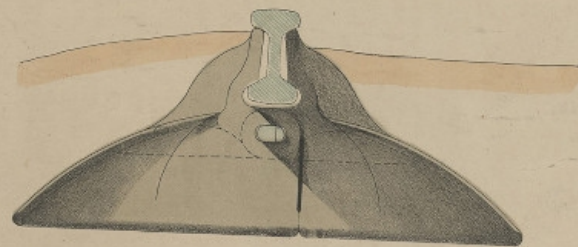


FIG. C.
ELEVATION OF INTERMEDIATE CHAIR,
(WITHOUT TIE-BAR)

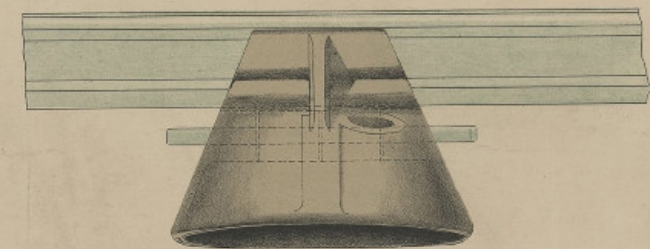
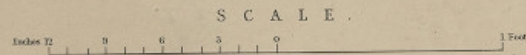


FIG. D.
SIDE ELEVATION OF INTERMEDIATE CHAIR.



Per mile

3520	Double Sleepers.	150 Ton. @	£500
3520	" Keys -	189 cwt. @	75.12 0
880	Tie-bars.	170 cwt @	62.12 9
			<u>738.5 9</u>

RUSSEL AITKEN, DESIG.

TO BE RETURNED TO
ENGINEER'S PLANT DEPT.
LONDON.