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LOCOMOTIVE TENDER

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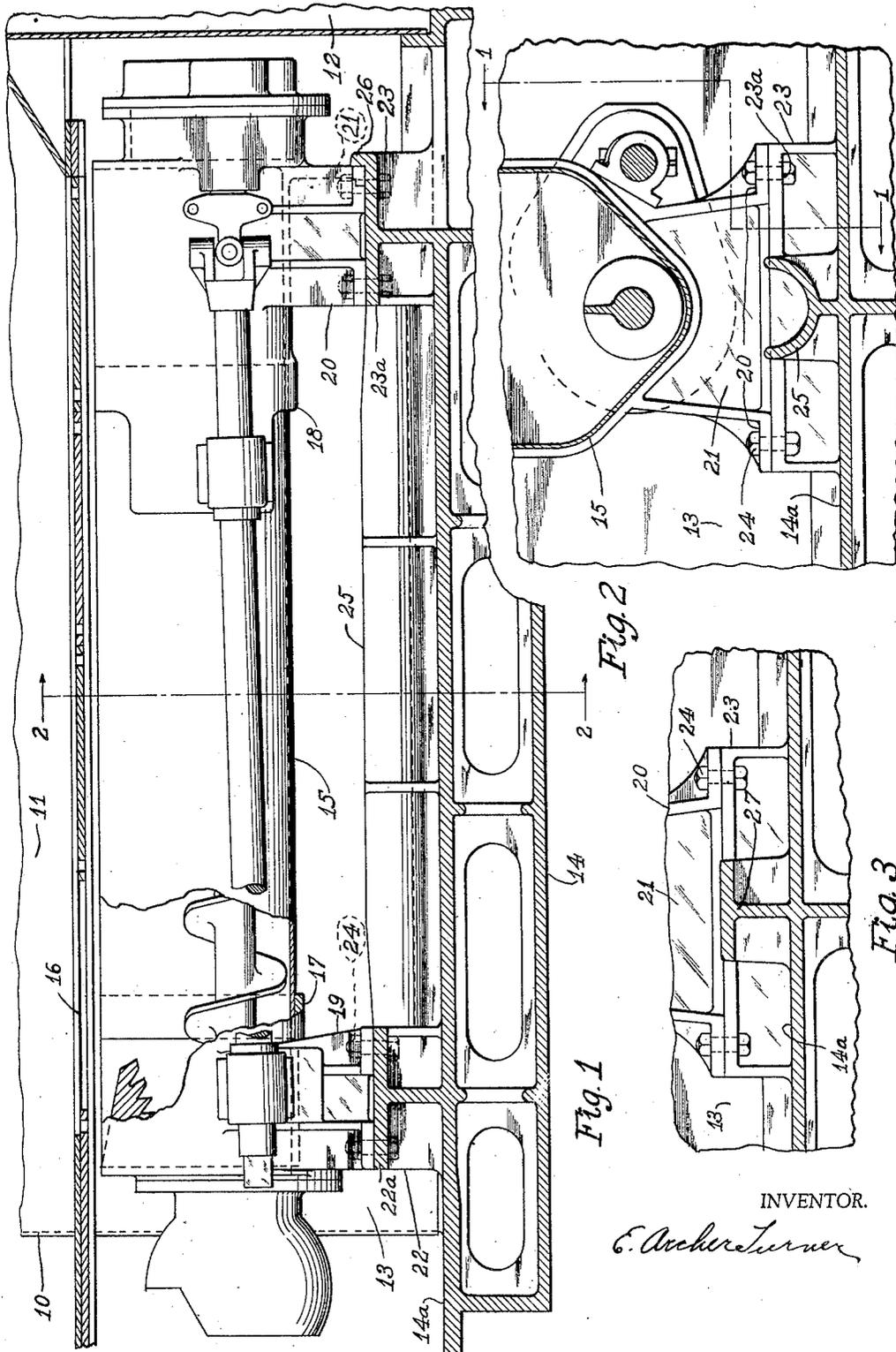


Fig. 1

Fig. 2

Fig. 3

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LOCOMOTIVE TENDER

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My invention relates to certain improvements in stoker equipped locomotive tenders, of the type employing cast metal underframes.

The object of the invention is to provide a novel stoker conveyor support formed with the tender underframe.

In the accompanying drawing:

Figure 1 is a longitudinal vertical section through the front end portion of the tender with the underframe and novel stoker conveyor support shown in section taken on the line 1—1 of Figure 2 which figure is a cross sectional view on the line 2—2 of Figure 1; and

Figure 3 is a view similar to Figure 2 illustrating a modified form of the novel support.

10 represents the tender as a whole provided with the fuel bin 11, the water section 12, the stoker conveyor compartment 13 and the "water bottom" underframe 14. A stoker conveyor 15 is disposed in the compartment 13 in a position to receive fuel from the bin 11 through its apertured floor 16. The conveyor is formed with end castings 17 and 18 which carry the depending foot members 19 and 20 respectively. A transverse wall 21 connects the foot members 20 and its bottom surface is in the same plane as the aforesaid foot members.

Transverse support members 22 and 23 formed integral with and extending above the top wall 14a of the underframe receive the foot members 19 and 20 respectively. Suitable bolts as at 24 securely hold the stoker conveyor in position on the transverse support members. Preferably, the horizontal tables 22a and 23a of the support members are spaced a sufficient distance above the wall 14a of the underframe to provide space therebetween for the insertion or removal of the fastening bolts.

The transverse members 22 and 23 are connected centrally by a longitudinally extending U-shaped guide bar 25, the upper marginal edges of which, intermediate the support members, gradually project slightly above the plane of the tables 22a and 23a. A raised ledge 26 extending transversely across

the rearward end of the table 23a in contact with the wall 21 of the foot members 20 forms a stop or thrust wall for the stoker conveyor.

At such times when the stoker conveyor is being removed or inserted, it may be slid out of or into position without wobbling or swinging by reason of the wall 21 resting on the U-shaped bar 25. This form of guide bar offers the least resistance to free sliding movement of the stoker conveyor, but if preferred, the guide may be made T-shaped as at 27 in Figure 3.

I claim:

1. A locomotive tender underframe including a top wall, transverse stoker conveyor support tables above said wall and being spaced apart longitudinally, and a U-shaped guide bar extending longitudinally between and connecting said support tables.

2. A locomotive tender underframe including a top wall, transverse stoker conveyor support tables spaced above said wall and being spaced apart longitudinally, and a U-shaped guide bar extending longitudinally between and connecting said support tables.

3. A locomotive tender underframe including a horizontal top wall, transverse stoker conveyor support tables disposed in a horizontal plane above said wall and being spaced apart longitudinally, and a U-shaped guide bar extending longitudinally between and connecting said support tables the upper marginal edges of said bar being in a horizontal plane no lower than the horizontal plane of said tables.

4. A locomotive tender underframe including a top wall, transverse stoker conveyor support tables above said wall and spaced apart longitudinally, and a longitudinal guide bar extending centrally between and connecting said tables.

5. A locomotive tender underframe including a top wall, transverse stoker conveyor support tables above said wall and spaced apart longitudinally, and a longitudinal guide bar extending centrally between and connecting said tables, the top surface of the guide bar being in a horizontal plane no lower than the horizontal plane of said tables.

6. A locomotive tender underframe includ-

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ing transverse stoker conveyor support tables spaced apart longitudinally, and a longitudinal guide bar extending substantially centrally between and connecting said tables.

5 7. A stoker conveyor support member adapted for use with a tender underframe comprising a plurality of spaced tables arranged in parallelism and a guide bar extending substantially centrally between and
10 connecting said tables

8. A stoker conveyor support member adapted for use with a tender underframe comprising a plurality of spaced tables arranged in parallelism and a guide bar extending substantially centrally between and
15 connecting said tables, the supporting surface of the guide bar being in a horizontal plane no lower than the horizontal plane of the supporting surface of said tables.

20 In testimony whereof I affix my signature.

E. ARCHER TURNER.

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