Nov. 18, 1924,

G. H. METZLER TRAIN STOP

Filed March 3, 1924

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Inventor: George H. Metter.

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UNITED STATES PATENT OFFICE.

GEORGE H. METZLER, OF WHITE PLAINS, NEW YORK.

TRAIN STOP.

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To all whom it may concern: ton frame E, I provide a vertically disposed Be it known that I. GEORGE HUMISTEN servated bar 14 from the back edge of which METZLER. a subject of the King of Great a rigid flag 16 swings out to danger and is Britain, a resident of the city of White held in position by a button and can be 60 5 Plains, New York, have invented certain new closed when not in use. A red lamp is placed and useful Improvements in Train Stops, of on bar at night. On back of skeleton frame which the following is a specification. E, I provide an upright 15, 8 inches high so This invention relates to improvements in in case of train coming in opposite direction the frame will be thrown from track. The 65 train stops. The system of stopping trains to prevent flagman secures the frame to the rail by accidents on the railways today usually is to means of the clamps 11 and 12 and the thumb place red flags or lights for the engineer to screws 13, and should the engineer not see see or torpedoes to make a noise for him to the danger the train will be stopped by the hear, if he fails to see or hear the signals, serrated bar 14 coming in contact with the 70 15 nothing can be done to stop the train. brass tube 10 and breaking tube which lets The present invention is an addition to the air escape from the train line B, causing signals already in use and provides a posia service application of the brakes to the tive stop by setting the air brakes on the locomotive and train, the frame E, is relocomotive which controls the whole train. leased from the rail and thrown to the side 75 The following specification and drawings of the track and the train stopped. will make clear the improved train stop. This portable train stop will be carried on The invention consists of a skeleton frame every train, and the brakeman will in the $\frac{3}{32}$ inch iron, 25 inches high above the rail; event of the train being stalled on the track, strongly constructed, weighing 8 pounds; run over the track to a safe distance from 80 25 and can be adjusted to rail by flagmen in the stalled train and place the skeleton frame less than a minute in winter or summer. E, so that if another train were following Figure 1 is a side view of the front of a closely it would be stopped by the frame E locomotive showing plate with brass tube at-operating in the manner above disclosed, and tached at end of the train line and showing prevent a rear end collision. 85 My improved sure stop train signal can be used in all cases of flagging where a positive front of locomotive. Figure 2 is a plan view of the same. stop is wanted. Light, portable, quick and Figure 3 is a cross view or as the engi- easily adjusted by flagman; it can also be neer sees my train stop, and showing the worked by levers and wires at stations and 90 35 means whereby it is clamped to the rail. where one railway crosses another instead Figure 4 is a plan view of plate with brass of a derailing switch; and can also be tube attached, showing shut-off valve C on worked by electricity. train line and try cock on the end of the The frame would also be in the custody of train line. When the tube is broken a new trackmen, station masters and all men con-95 40 one can be placed in the same manner as a nected with the moving of trains. This portable train stop is an addition to gage glass. flag and torpedoes, and in foggy or stormy Referring to drawings: A represents a locomotive; the said loco-weather will prevent accidents when other motive being provided with a train line—B signals fail to give warning. 100 45 (which carries the air) on the end of which As many changes could be made in the

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30 my improved train stop clamped on track in

the plate with the brass tube 10 is mounted. above construction and many apparently I provide a skeleton frame E to break the widely different embodiments of my inventube, the frame being angularly disposed to- tion within the scope of the claim construct-50 end of this skeleton frame side clamping scope thereof, it is intended that all matter members 11 and 12 are provided which em- contained in the accompanying specification brace the ball of the rail F the clamps being and drawings shall be interpreted as illustightened to the rail by thumb screws 13, trative and not in a limiting sense. which pass through the clamping members 55 and also through the lower members of the skeleton frame E on the front of the skele-

wards the advancing train and on the lower ed without departing from the spirit or 105 What I claim as my invention is: 110 A train stop comprising a tube attached to a plate, mounted on train line of the loco-

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motive, angularly disposed skeleton frame In witness whereof I have hereunto side clamping members and bolts securing my hand in the presence of two witnesses. the skeleton frame to the rail in advance of the locomotive, a serrated bar on front of 5 skeleton frame designed to break said tube and release the air, and signaling means at-tached to skeleton frame.

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In witness whereof I have hereunto set

GEO. H. METZLER. Witnesses:

W. J. DUNN, W. A. MACLEAN.

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