



**The Walschaert and Other Modern Radial Valve
Gears for Locomotives; A Practical Treatise on the
Locomotive Valve Actuating Mechanism Invented
by Egide**

William Wallace Wood

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This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1912 edition. Excerpt: ... be centred and secured in the prescribed way, and you can then proceed--on one side. Q. 8.--In these cases of failure of certain parts of the gear such as the eccentric rod or union link, etc., what are the advantages in being able to still secure the short movement of the valve and a limited port opening when the piston is at the beginning of its stroke? A.--On the big up-to-date engines it is impractical to try to remove the main rod in cases of breakdowns, and when it is left up and the valve is blocked at the centre of its travel, the piston will meet with high resistance toward the finish of either stroke, on account of the air compression ahead of the piston and a partial vacuum behind it; this added to the braking power at applications of the air brake may cause the drivers to slide and flatten. The port opening provided as referred to, gives relief from this effect; further, it permits oil from the lubricator to reach the cylinder and prevent the walls from becoming dry and being cut by the piston--a condition that must be particularly guarded against when the main rod is left up, in cases of breakdowns. INDEX A Accessibility of Walschaert gear, 131, 132 Adaptability of Walschaert valve gear, 142, 143 Adjustment of Walschaert valve gear, 102 Advantages derived from the use of Walschaert gear, 129-148 Allan valve gear, and the Allen valve, 102 Analysis of the Walschaert gear, 11-92 B Baker-pilliod improved valve gear, 228 Advantages in securing the short travel of the valve on disabled side of engine, 236 Combination lever, if broken short, how arrange, 235 Eccentric crank or eccentric rod, if broken, what should be done, 233 Engine disabled on one side, how to block the valve, 233 Other breaks requiring bolting bell crank to...

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