



Power Volume 24 Devoted to the Generation and Transmission of Power

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This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1904 Excerpt: ...tandem compound running at 200 revolutions and rated at 250 horse-power, higher than some of the main units. The Allis engine carries a Bullock generator and runs the incandescent lights for decorative lighting. In the space between the Allis engine and the intramural group represented by 14, 15 and 16 will be a unique exhibit by the Abner Doble Company, of San Francisco, Cal., consisting of a Doble tangential water wheel with ellipsoidal buckets operated by a needle regulating nozzle with a Lombard governor running at 700 revolutions, and direct connected to a 100-Model Locomotive Constructed Of Gage Glasses. driven by separate eccentrics with the dash-pots mounted on the cylinder, as in several other Corliss engines exhibited. Of the two governors shown, the larger one controls the speed and the smaller one operates to close the butterfly valve shown in case of over speed. Both are chain driven from the main shaft. This engines appearance conveys the impression of careful workmanship and finish, and it is carrying its full share of the load. No. 15 is a high ratio tandem compound Fleming, which has been discussed in these columns recently and was described in detail in our February, 1904, issue, the only difference being that the engine exhibited is an inch shorter in its stroke. A striking feature of the exhibit is the mounting of the exciter unit on top of the frame of the main engine, where it runs at 450 revolutions per minute without a tremor. The main engine is fitted with a consolidated engine stop. The other unit of the group is No. 16, a cross-compound Lane & Bodley, the only novel feature of which is the releasing gear shown in Fig. 4, in which the spring has been dispensed with and gravity alone depended upon. The dash-pot is inside hung s...

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