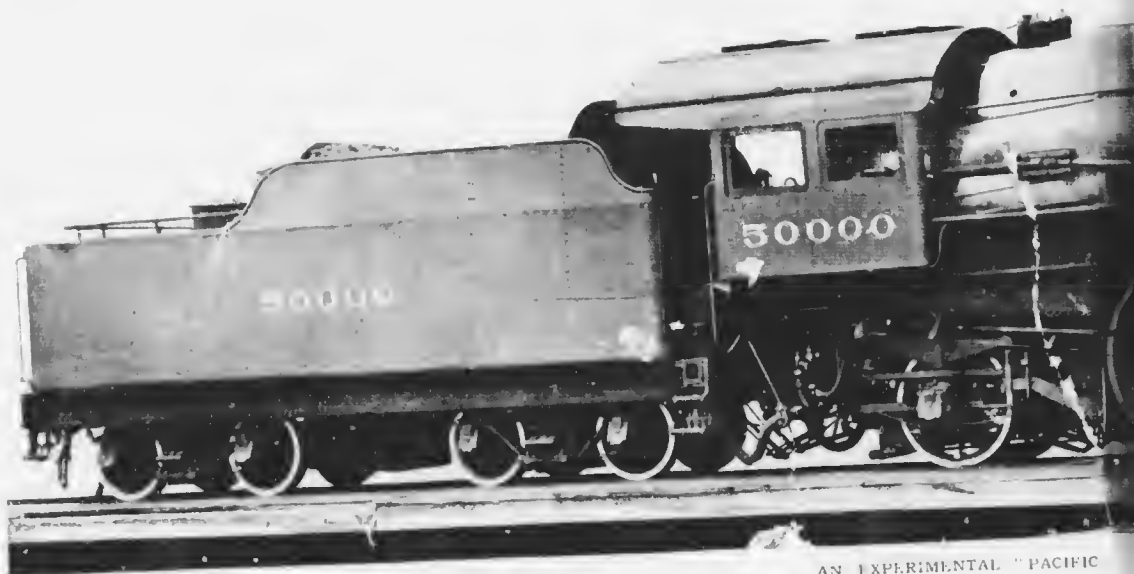


RAILWAY WONDERS OF THE WORLD

The Pacific class is a logical development of the Atlantic 4-4-2 type, and has attained its present vogue because it has proved so completely successful for its particular work under all and varying conditions. In Great Britain there is only one expression of its design—the "Great Bear" of the Great Western Railway, and although this engine evidently is successful

maximum power per pound of weight as they succeeded in a remarkable manner, seeing that under tests in actual service the engine has developed 2,216 horse-power, which represents one horse-power for every 121½ pounds of total weight. Locomotive engineers who have seen the locomotive agree that it is a business looking machine in every respect, and from a perusal of its



AN EXPERIMENTAL "PACIFIC"

The total weight of engine and tender is 215½ (American) tons. The total

in operation, curiously enough it has not been taken up generally. On the continent, however, it is becoming more and more appreciated, and is being produced in increasing numbers, not only for the home systems, but also by the private builders for the various railways of the world.

Under these circumstances, therefore, the American Locomotive Company, by its selection, had a good opportunity to excel, especially in view of the acknowledged need of greater sustaining capacity to meet the requirements of modern passenger train working.

The builders set out to provide the

performances, or a more intimate acquaintance with it on the road, are prepared to admit that it is of an epoch-making character. From the operating point of view it has been equally impressive, inasmuch as the machine has shown a fuel economy exceeding 25 per cent over engines of the same type and equal weight of conventional design.

The end which the builders set out to attain has been achieved by the fullest application of the most approved developments in locomotive design and materials. The latest knowledge of general proportions, the most recent developments in materials, improvements in the design of