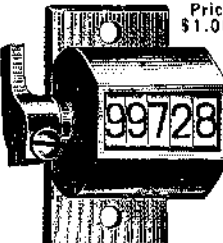


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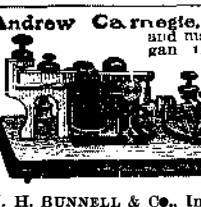
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set away in quiet, because the cream is lighter than the rest of the milk. Butter also, after it is worked, floats in water or milk. Our figures are taken from a government report on the subject and may be received as reliable.
2. If a train weighing 400 tons is pulled by an engine that takes it at the rate of 35 miles an hour over a level track, what must be its power? A. On a level track, at a speed of 30 miles per hour, the train resistance varies from 13 to 17 pounds per ton. This multiplied by the number of feet traveled per minute, and divided by 33,000 will give the useful power exerted by the engine in horse-power.

NEW BOOKS, ETC.

PORT ARTHUR A MONSTER HEROISM. By Richard Barry. Illustrations from photographs taken on the field by the author. New York: Moffat Yard & Co., 1905. 12mo. 18 illustrations, 344 pages.

The author of this work is a young newspaper man who, at the opening of the war, set out for the scene of conflict with a small camera, small resources, and even smaller experience. But he possessed unbounded confidence and patience—qualities that held him at Tokio, when other correspondents were leaving in disgust at the delay—and finally landed him at no less a place than the Japanese lines before Port Arthur.

With such splendid opportunities for acquiring information, the author should have come home with ample material to write a clear, concise, and connected story of the siege. His photographs and facts, as given in this book, show that he has gathered the material; but unfortunately he has failed to arrange and relate his facts in the simple, straightforward style demanded by a subject so intricate and, to the outsider, so confusing, as this siege.

We could wish that Mr. Barry had followed throughout his book the direct and lucid style of the introduction, which is in such strong contrast to the heroics and "fine writing" of the book itself, as to make us suspect that some friendly pen has come to his relief. If the author had taken this introduction as the mesh, and woven into it the simple story of the facts as he saw and photographed them, he would have written a better, because a more understandable book.

At the same time, it must be admitted that the work is genuinely interesting; and as a series of thrilling, if disconnected, word-pictures by an eye-witness of the greatest siege of modern times, it will well repay perusal.

THE AUTOMOBILE POCKETBOOK. By E. W. Roberts, M. E. Cincinnati: The Gas Engine Publishing Company, 1905. 32mo.; pp. 329. Price, \$1.50.

This small volume gives very concisely a great deal of information essential to the automobilist. It is intended as a pocket handbook and, therefore, has been made small in size—3 1/2 x 5 1/4 inches—and bound in flexible leather covers. Besides describing all the main parts of a gasoline automobile, and telling how to make repairs when anything about it breaks down, Mr. Roberts gives hints on how to operate a car, and a chapter of "Don'ts," which tells what to avoid. There are many useful points regarding automobile designing which are discussed in the book. One chapter in particular that will be of interest is that telling how to make a brake test of a gasoline motor. The book is completed with an index. It is the best small volume on the automobile which we have seen thus far.

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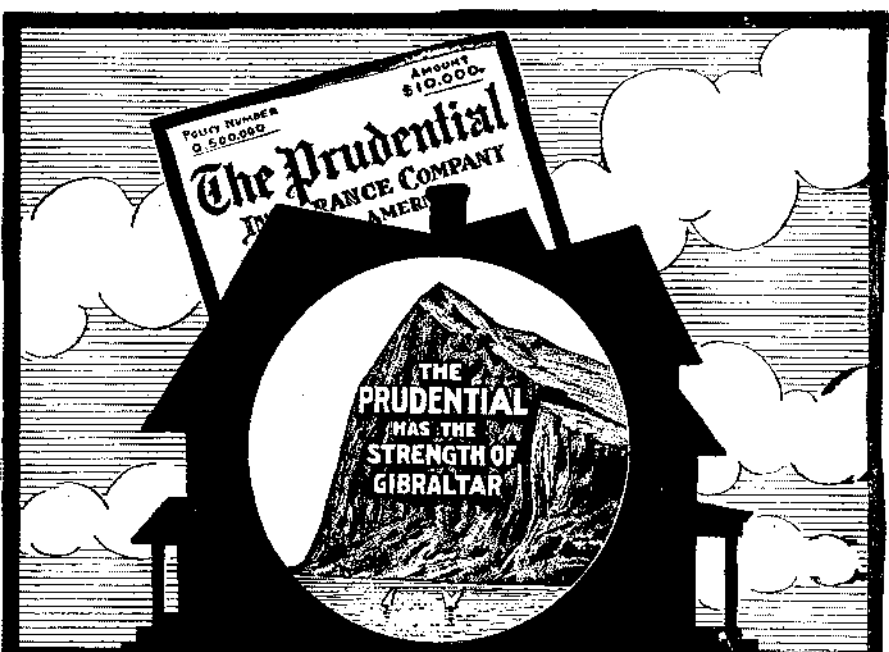
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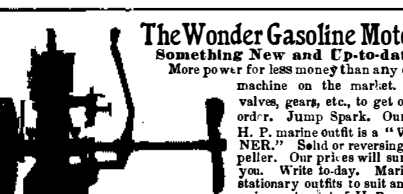
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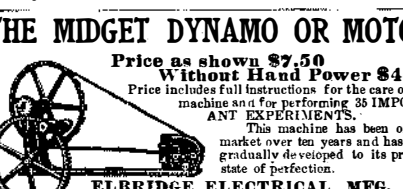
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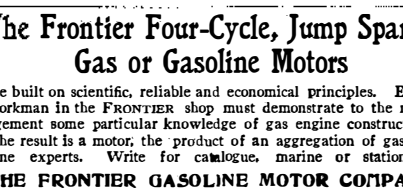


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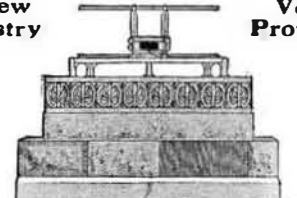
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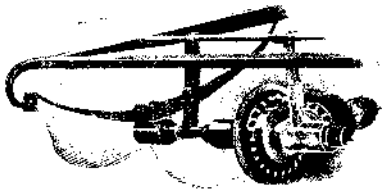
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Advertisement for Solar Motor Lamps, featuring an illustration of a lamp and text describing its benefits.

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Advertisement for Mennen's Borated Talcum Toilet Powder, featuring a portrait of a man.

Advertisement for Southern Farms, highlighting land opportunities in Virginia, North, and South Carolina.

- Vertical list of various mechanical and electrical parts with prices, such as 'Packing ring, metallic, H. Gill' and 'Packing, throttle valve, Graham & Sullivan'.

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