

SCIENCE SETTLES A GREAT PROBLEM.

"Sober, he was the brightest, the most efficient, the most valuable man in his line I ever knew."

Probably the truth lies in this axiom of mechanics: That the more delicate and complex a machine is, the easier it is impaired.

This drink-evil has never been without its earnest students. Good men and women have devoted their lives and means to the cause of temperance.

Have they succeeded? With no intention to disparage, with every appreciation for the nobility of their aims, with the concession, indeed that they have actually achieved no small result, it must still be maintained that in a broad sense they have failed.

The old fashioned temperance worker says they will not. Science says they cannot.

Says the first: "They are wicked and perverse, deaf to the voice of reason, decency, self-respect, manhood."

For the will is not an organ, be it understood, a tangible thing with which we are all equipped alike.

Should you, then, continue to urge a man to use something which his impaired system has ceased to produce, or should you repair his system to that end?

The problem presented itself substantially in these terms to one Leslie E. Keeley some thirty years ago. The son of a physician and the grandson of a physician, his bent was for medicine.

To-day there are sixty Keeley Institutes in the United States as against the single institute founded by Dr. Keeley, at Dwight, in 1891.

Business and Personal.

Marine Iron Works. Chicago. Catalogue free. For logging engines. J. S. Mundy, Newark, N. J. "U. S." Metal Polish. Indianapolis. Samples free.



HINTS TO CORRESPONDENTS.

Names and Address must accompany all letters or no attention will be paid thereto. This is for our information and not for publication.

(7881) F. W. G. asks: Can you give the chemical used to make paper such as was used in the old marking telegraph.

(7882) C. S. asks: What substances can be put in a full glass of water before it will flow over? Can this be found in your chemical department?

NEW BOOKS ETC.

MACHINERY FOR REFRIGERATION. By Norman Selfe. Chicago: H. S. Rich & Company. 1900. 8vo. Pp. 372, 213 illustrations. Price \$3.50.

The author, who lives in Australia, is familiar with all types of refrigerating machinery, and has been connected with the subject since 1858.

A TREATISE ON STAIR BUILDING AND HAND RAILING. By William Mowat, M.A., and Alexander Mowat, M.A.

In preparing this book the authors have done a signal service to architects and builders, for they have placed in their hands a complete course of construction in the principles and practice of stair building and hand railing, embracing all the technical information required in general practice.

building and hand railing are by no means easy subjects to master, and the authors have acquired themselves of a difficult task in an admirable manner.

THE ROOF FRAMER; OR, THE SCIENCE OF ROOF FRAMING MADE EASY.

A most valuable book for any builder, comprising a system of full-sized working scales for the rafter pole and prepared bevels, with specific instructions and a complete system of rules for getting anything required in roof framing.

The Photo Miniature.—We have received No. 3 of this unique pamphlet form of literature devoted entirely to all that can be said on "Hand Camera Work"

INDEX OF INVENTIONS

For which Letters Patent of the United States were Issued for the Week Ending APRIL 24, 1900.

AND EACH BEARING THAT DATE.

- Acid and making same, nitrobenzylaminul sulfonic, Homolka & Stock. 648,261
Acid and making same, oxanthraquinone disulphonic, H. Laubmann. 648,271
Acid making title, J. F. White. 648,322

- Cultivator, M. C. Moore. 648,368
Cultivator, J. F. Sheahan. 648,361
Curtain shield, G. S. Ullom. 648,003
Curtain pole, H. P. Roberts. 647,989
Cut off, water, A. D. Tuttle. 648,181