

forth in a new typographical outfit, and the new proprietors promise that it will be better than ever before in the artistic and literary departments, while it will strive to deal out even-handed justice in its comments on public questions. The publishers (Phoenix Publishing Co., Toronto) wish to hear from all Grip's old friends and thousands of new ones. Subscription as heretofore, \$2. Single copies, 5 cents.

Good Housekeeping for January began the eighteenth volume of this admirable magazine, which is in fact, as its publishers claim, "conducted in the interests of the higher life of the household." H. Annette Poole's serial, "A Noble Girlhood," is ended, and among the other leading articles are, "Market Curiosities," by Maria Parloa; "Tablecloths and Napkins," by Margaret Fayerweather; "Eyes and Eyesight"; "To Dress Well and Economically," by Helena Rowe; "Games and Gaming," by Milton Bradley; "Faith Bradford's Violin," a poem admirably adapted for public recitation, by Dorothy E. Nelson; "What to Do With My Lady's House," by Mrs. Oliver Bell Bunce; "For Little Ben," a short story, by Harriet A. Chute; "Economy in Dress," by Clara B. Miller, and a multitude of shorter articles, with a rich assortment of original verse—verse which is poetry. Clark W. Bryan Company, publishers, Springfield, Mass.; \$2 per year.

It would be difficult to find amongst the monthly periodicals a magazine at all rivalling in interest to Canadians that successful national review, *The Canadian Magazine*. It is, while broadly cosmopolitan in subject-matter, thoroughly national in aim and in attention to every part of the Dominion. Every province, from the Atlantic to the Pacific, is represented among the contributions, and throughout a high literary merit marks the articles, many of which are highly entertaining and all interesting. The January number is, like its predecessors, full of variety. "Howe and his Times," by Attorney-General Longley, gives many amusing incidents about Nova Scotia's public men of a generation ago. Chancellor Rand, of McMaster University, publishes for the first time one of the most extraordinary psychological experiences on record. Minnie Jean Nisbet has a charming illustrated article on "Longfellow's Wayside Inn." E. Dowsley's "Plea for Ireland" charmingly describes Irish scenery and people, and gives beautiful illustrations of some of the Irish valleys. E. B. Biggar's "Two Lost Kingdoms," illustrated, tells of Cetowayo and the Prince Imperial. A well written and illustrated article is J. J. Bell's "In Canada's National Park." *The Canadian Magazine*, which should be in every cultured home in the Dominion, is published by the Ontario Publishing Co., Ltd., \$2.50 per annum.

"Steam Boiler Tests as a Means for Determining the Calorific Value of Fuel," by D. W. Robb, Amherst, N.S., published by the Canadian Manufacturer Publishing Co., Ltd., Toronto, is a valuable paper upon a subject of the utmost interest to all steam users. Mr. Robb, who is the senior of the Robb Engineering Company, Amherst, is a gentleman who has given much study to the subject of steam engineering, and is well fitted to write on this matter. His paper was originally read before the Nova Scotia Institute of Science at the 1890-91 session, and was then extensively published by that Society. Having gone out of publication the paper was reproduced in the *CANADIAN MANUFACTURER* of a recent date, and the renewed interest in it demanded that it should be again brought out in convenient form, as now shown in the pamphlet here alluded to. Those who may be interested in this subject will no doubt be supplied with copies upon application to Mr. Robb.

As the magneto telephone of the American Bell Telephone Company—the instrument commonly known as the "receiver"—becomes public property at the beginning of February by the running out of the patent, the interest as to the immediate future of the telephone industry is widespread. Not only do people want to know how soon they will get cheaper telephones, but manufacturers who wish to supply the market are anxious to know how far they can go legitimately and honestly. There has been a great deal of misinformation published on the subject, and much of it has been of a mischievous tenor. The telephonic art is far from being wholly open, as some would suggest. The American Bell Telephone Co. is strongly entrenched within patents that rise one behind the other like concentric fortifications, and it has not spent its existence in a supine and lazy enjoyment of fat profits to be reaped for only a season. But the lapse of the fundamental patents renders some things possible, in some fields that the company has neglected or chosen to disclaim. To meet the demands for the real facts, *The Electrical Engineer*, 303 Broadway, New York, began on Jan. 17, a series of articles that have been very carefully prepared, covering the whole ground of telephonic patents and telephonic apparatus. Where deemed important and pertinent, the language of the patent claims bearing on the situation is quoted in these articles.

A varied and attractive table of contents is offered by *The Popular Science Monthly* for February. Dr. Andrew D. White, contributes the first of a new group of his *Warfare of Science* papers under the special title of *The Visible Universe*. The recent death of Prof. Tyndall gives occasion for an account of "Tyndall and his American Visit," containing some interesting letters, which is furnished by Miss E. A. Youmans. There is also an estimate of the man and his work in the Editor's Table. Under the title "Notes from a Marine Biological Laboratory," Prof. William S. Wundt describes the laboratory of the Johns Hopkins University in Jamaica, with views of its surroundings. In another illustrated article James E. Humphrey tells "Where Bananas grow," showing by the pictures how the fruit is gathered and shipped. In another Dr. Sidney J. Hickson describes the "Physical Conditions of the Deep Sea." From still another, entitled "The Wandering Jew at the Salpetriere," we learn that this mythical character really exists, not as an individual but as a class. Several portraits of these unfortunate wanderers are given. Mrs. Ellen B. Dietrick discloses the real condition of "The Circassian Slave in Turkish Harems," which is not so bad as many outsiders have imagined. John Monteth describes "The Psychology of a Dog." Miss Blanche Macdonell puts on record some "Superstitions of the French Canadians." Prof. Joseph Prestwich sets forth "The Position of Geology" at the present time, and the list closes with a "Sketch of David Starr Jordan," President of Stanford University, by Prof. M. B. Anderson, accompanied by a portrait. New York: D. Appleton & Company. Fifty cents a number, \$5 a year.

Outing for February is an excellent number throughout. Its contents are "Invisible Chains," a complete story by Louise D. Mitchell; "The Home of the Hulero," or *Canoëing in Honduras*, by E. W. Perry; "The Price of a Name," a story by B. H. Harrison; "Hunting in Polar Regions," by J. M. Mills, M.D.; "In the Land of Josephine," by Walter L. Beasley; "Jamaica for Cyclists," by Alan Eric; "Lenz's World's Tour 2-Wheel"; "Alaskan Boats," by Lieut. J. C. Cantwell; "A Day's Sport in the Caroline Islands," by S. H. Watts; "A Path Through the Woods," by Jas. Buckham; "In Another World Than Ours," by Grace E. Channing; "Trawling with Gloucester Fishermen," by John Z. Rogers; "A Sportsman's Taxidermy," by L. H. Smith; "A Championship Hockey Match in Canada," by Charles Gordon Rogers; "National Guard of Pennsylvania," by Capt. C. A. Book, and the usual editorials, poems, records, etc.

When the metal bathtub resolutely declines to be polished into brilliancy, and assumes a dingy, uncared-for aspect, it is time to apply the paint brush. Of course not even the most skilled household artist can succeed in producing a rival to the porcelain tub in which fortune's favorites take their daily dip, but a very attractive substitute may be obtained. The tub must first be scoured and thoroughly dried. Then a coat of ordinary white paint should be applied and allowed to grow quite dry. After that three or four coats of white enamel should be applied, each one becoming quite dry before the next is added. The tub will be both daintier in appearance and more easily kept clean than the tin or zinc ones.

The efficiency of a new method of cleansing and preserving steam boilers against pitting and general corrosion, was recently demonstrated on board the steamship *Tenasserim*, Glasgow, by the Electric Anti-Corrosion Company, of Carlisle. This process consists of fixing electrodes into the boilers and sending periodical currents of electricity through them under definite conditions, automatically adjusted and controlled. When the current is passing from the anodes suspended in the boiler to the shell, hydrogen is liberated on the shell and tubes and oxygen on the anodes; then, by means of the depolarizing apparatus, the action is changed, and most of this hydrogen and oxygen recombine, the result being that during the first period the hydrogen performs two distinct functions—first, by its volume it mechanically disintegrates the scale formed on the shell and the tubes, and, secondly, some of the hydrogen combining chemically with the oxygen of the oxide of iron on the shell and tubes reduces this oxide to metallic iron, thus preserving the boiler from oxidation without wearing away the metal.—*Invention*, London.

DIAMINE CUTCH.

Messrs. Wm. J. Matheson & Co., New York and Montreal, have sent us a circular regarding this article as follows:

Diamine Cutch (patented), is the first of a new range of valuable colors the discovery of which considerably enlarges our series of Diamine Colors. The principal use this color is destined to fill is expressed by its name.