

the outer corner in passing, and will strike safely below the other corner, inside of the notch. In order to conduct his operations understandingly, the workman should have a clear comprehension of the principles of the entire escapement.—*Manufacturing Jeweler.*

### THE TENACITY OF STANDARD GOLD.

In the annual report of the Mint just issued, it is stated that it is well known that standard gold is rendered very brittle and unfit for coinage by the addition of a minute quantity of certain metals, the action of lead being specially remarkable. It seemed desirable to obtain more accurate data than at present exist as to the effect of impurities on the mechanical properties of gold. With this object in view, bars five inches long, each weighing about five ounces, were prepared of pure gold alloyed with pure copper in the proportion of the legal standard, as well as bars of the same alloy to which small but varying amounts of lead had been added. These bars were then cut by a planing machine into the form usually employed for testing tenacity of metals, and submitted to traction in an ordinary testing machine. The result showed that pure standard gold has a tensile strength of 18 tons per square inch sectional area. The limit of elasticity appears to be reached with a stress of  $1\frac{3}{4}$  tons, and the sample of metal fractures after elongating 24 per cent. The presence of one four-thousandth part of lead reduces the tenacity of 7.7 tons, the limit of elasticity practically coincides with the breaking load, and the elongation is hardly measurable. The further addition of one four-thousandth part of lead produces a diminution of tenacity to 5.4 tons. If, however, the total amount of lead be raised to 1 per cent., the breaking point remains about the same, so that 0.5 per cent. of lead would appear to be as deleterious as 1 per cent. The effect on mechanical properties of standard gold produced by minute quantities of impurity is very remarkable, and well deserves further examination.—*Exchange.*

## EDITORIAL NOTES.

### SPECIAL NOTICE.

Jewelers throughout Canada will oblige the Editor by sending into this office for insertion in these notes any items of news pertaining to the Jewelry business that they think would be of interest to the Trade generally.

**CLEARED OUT**—G. H. Gordon, jeweler, Amherst, N. S., last month left suddenly owing about \$3,500. His creditors think that another good man has gone wrong.

**BACK AGAIN**—Mr. James Venn, the well-known retail jeweler of this city, arrived home safely from Europe last week. He had a big time and looks well.

**ASSIGNED**—L. N. Paré, jeweler, of Montreal, assigned last month. His liabilities are said to be \$3,500 and his assets about half that sum. There are evidently too many retailers in Montreal.

**BURNED OUT**—We are sorry to learn that the store of H. C. Canneff, jeweler, of Petrolia, Ont., was destroyed by fire about a month ago, but trust he was fully insured against loss.

**MR. C. E. REDFERN**, jeweler, of Victoria, B. C., and formerly Mayor of that metropolis of the Canadian Pacific slope, was in the city for a few days last month purchasing goods for his fall trade. He reports favorably of the state of trade in his province.

**MR. G. SEIFERT**, the well-known jeweler of the city of Quebec, called on us last month to present his compliments in person. He had been West attending the Berlin Sangaerfest and on his way home dropped off to see his brother craftsmen in the Queen City of the West.

**LOOK OUT FOR THEM**.—We direct the special attention of our readers to the advertisement of goods stolen from the Vickers' Express Company. Any jeweler getting trace of them will be rewarded by applying to the Superintendent of the Company.

**STOLEN**.—Mr. B. Savage, the well-known jeweler, of Guelph, had some watches stolen from him a few weeks ago, as will be seen by our Help Column. Will the trade kindly keep a lookout for them and report to Mr. Savage if they get any trace of them.

**MR. HUGH RYAN**, formerly with E. & A. Gunther, of Toronto, and Levy Bros. of Hamilton, has made an engagement to take the road for Mr. Harry Ellis, wholesale jeweler, of Toronto. Mr. Ryan has a first-class reputation as a traveller, and we wish him continued success.

**A GOOD TRADE**.—The verdict of Toronto jewelers, both wholesale and retail, regarding the amount of business done during the Fair, is that it far surpassed in volume any previous Exhibition. The Toronto Exhibition is in time bound to become to Canada what the Leipsic Fair is to Germany.

**THE MONTREAL BRIGADE**, mustered in full force at the Rossin House (their usual headquarters) during the Exhibition. As a rule they looked cheerful, did a good business and left well pleased with the results. The only exception we saw was the patriarch of the brigade who complained that things are not what they once were.

**SELLING OUT**.—Mr. A. Brownley, jeweler, of Ailsa Craig, Ont., is, on account of ill health, trying to dispose of his business, as will be seen by his advertisement in another column. This presents a rare chance for some enterprising young man to step into a well established and good paying business.

**CLOCK CATALOGUE**.—The illustrated clock catalogue issued last month by H. A. Nelson & Sons, Toronto and Montreal, is one of the best of the kind ever issued in Canada. This firm is now making a specialty of clocks, and as our readers will see by our advertising columns, propose to keep in the front as regards prices and styles.

**RETURNED FROM B. C.**—Mr. E. G. Gooderham, Manager of the Toronto Silver Plate Co., has returned from a most successful business trip to British Columbia. Mr. Gooderham expresses himself as delighted with Canada's most Westerly Province, and expects that his company will do a large trade there in the near future. Although it was his initial trip it was a big success.

**OUR CARD BASKET**—THE TRADER was not altogether forgotten by our jewelers who visited the Toronto Exhibition, and our sanctum was enlivened by some of the most genial souls in the craft during the week. Amongst them were the following: Mr. Geo. Smith, of Smith Bros., Kingston, Ont.; R. E. Bywater, Brighton, Ont.; W. J. Douglas, Pembroke, Ont.; W. Harkness, Meaford, Ont.; A. S. Murray, London, Ont.; C. E. Redfern, Victoria, B. C.

**A LIE NAILED**—Interested parties have been circulating the report that the Montreal Optical Company sold goods at retail during the continuance of the Toronto Exhibition. Mr. Levetus, the western representative of the company, and the gentleman who had charge of the company's exhibit, requests us to state that the report is entirely untrue, as the Montreal Optical Company have never sold their goods at retail either at the Toronto fair or anywhere else. The company sell only to the legitimate trade and protect them in every way.

**OUR ADVERTISEMENTS**.—We need scarcely say to our readers that the advertisements that fill our columns each month are well worth perusing and studying carefully. The wide awake merchant who keeps fully abreast of the times is always the best advertiser, and our readers may rest assured that the monthly messages from these firms cannot fail to be of benefit to them. Our advertisements this month are of more than ordinary interest and we bespeak for them the careful attention of Canadian jewelers.

**MR. ROBERT McLEAN**, one of the partners in the firm of J. & J. Taylor, the well-known Safe Manufacturers, sailed for Europe last month by the Cunard Steamship "Etruria." Mr. McLean has stuck very close to his business for a number of years, but as their rapidly increasing foreign business made it necessary for more complete arrangements he thought he could kill two birds with one stone, by taking a combination business and pleasure trip. We wish him a pleasant and successful journey and a safe return.