

The Cisco bridge is about 6 miles below Lytton, and is the first crossing from the Port Mann end of the line. It passes over the C.P.R. tracks at this point. More than half of bridge No. 2, about half a mile west of Lytton, has been constructed and work is now proceeding on the west shore span. Bridge No. 3, a short distance east of Lytton, has been practically finished, with the exception of a big girder which is to be laid when the track is extended. Bridge No. 4 at Basque, No. 5 at the Black Canyon, and Nos. 6 and 7 near Ashcroft, have all been erected. The foundations of two bridges close to Kamloops have been laid; and work on the superstructures will be proceeded with when track is extended. Bridge No. 10, three miles above Kamloops, has been finished. On the section north of Kamloops work has also been well advanced. The foundations for the big trestle bridge over Lyon Creek at Mile 123 have been laid; and preparations are now being made for the erection of the superstructure. Track-laying will be proceeded with when the Cisco bridge is ready for traffic; and then the various gaps on the sections north of the present rail-head will be linked up right through to Kamloops.

PERSONAL.

D. C. A. GALARNEAU has been appointed forester to the Algoma Central and Hudson Bay Railway, with duties which will include supervision of the railway's fire protection system.

W. R. WORTHINGTON, engineer in charge of the sewer department of the city of Toronto, has been appointed to act as examiner in this district for the Royal Sanitary Institute of Great Britain.

C. R. YUILL, successor to Nather, Yuill & Company, of Vancouver, is consulting engineer for the city of Armstrong, B.C., and has just completed plans for the construction of four reinforced concrete bridges for the city.

G. R. BLAIR, who for some time past has been assistant to T. R. Fulton, Ontario manager for the Eugene Phillips Electrical works, Limited, is acting as manager for Ontario pending the appointment of a successor to Mr. Fulton, resigned.

C. L. HOWSE, .E.E., of Hamilton, has been appointed manager of the hydro-electric and waterworks systems of Peterborough, Ont., and will begin his duties on July 1st. Mr. Howse has had considerable previous experience with the Hamilton Hydro-Electric Department.

H. L. BROWN has, it is announced, been recommended to the appointment of assistant city engineer of Winnipeg to succeed the late R. D. Willson, who, as our readers will remember, was electrocuted while on a trip of inspection over the city's artesian well system last fall. Mr. Brown has been in charge of the wells.

AGENTS WANTED.

A well-known British manufacturer of sewage disposal apparatus is anxious to get in touch with responsible individuals or firms in Canada who would be in a position to act as their agents and be able to influence business on their behalf.

A British firm engaged in the manufacture of dynamos and motors is anxious to appoint Canadian agents for the sale of their apparatus in this country.

Fuller particulars regarding the above inquiries can be had by corresponding, in the first instance, with Mr. J. J. Salmond, Managing Director, *Canadian Engineer*, 62 Church Street, Toronto.

A NEW SLIDE RULE IMPROVEMENT.

A new patented indicator or runner for slide rules, called the "Frameless" has just been perfected by Keuffel & Esser Co. Every figure on the rule is clearly visible at all times,

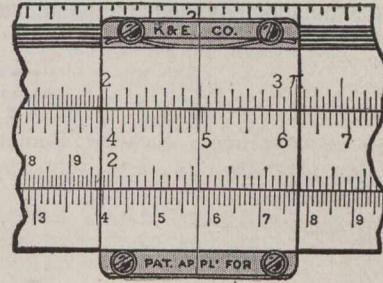


Fig. 1.

there being no side pieces to the metal holder of the glass indicator, and therefore, nothing to hide any of the figures on the rule (see Fig. 1). This is one of the most important improvements in slide rules—those indispensable instruments for rapid calculations.

Many times, after setting the old style indicator or runner, the user would find that he could not read the result because important figures were hidden by the frame or holder of the glass, (see Fig. 2). Frequently two, and sometimes, four or more figures would be thus hidden; causing more or less inconvenience and uncertainty in reading the slide

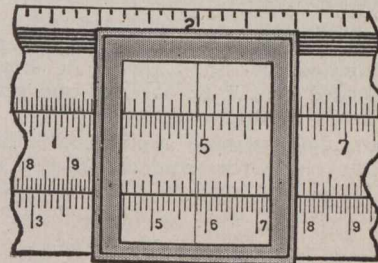


Fig. 2.

rule. The new runner entirely obviates this difficulty, and vastly increases the ease and rapidity of using the rule,

Thousands of engineers and scientists in every profession and industry, as well as contractors, builders, architects and merchants have found the slide rule invaluable as a time and brain saver in quickly and accurately making a great variety of calculations. In its various forms, it has been adapted to the needs of practically every line of work, including all branches of engineering, as well as chemistry.

The 6th International Congress of Mining, Metallurgy, Engineering, and Economic Geology, will be held in London July 12th to 17th, 1915. The Congress will be divided into sections corresponding to the above. The last Congress was held at Düsseldorf in 1910.

Word has been received by the Hon. Louis Coderre, Minister of Mines at Ottawa, to the effect that a British company with a Canadian connection, the Oil Processes, Limited, is going to spend a sum in excess of \$2,000,000 in a systematic and exhaustive search for petroleum in Northern Alberta.

The blast furnaces at the Washoe Works, Anaconda, now have water-jacketed tops. Riveted-steel jackets proved unsatisfactory. The best form has been found to be cast-iron jackets, about 2½ in. thick, the iron being cast around a grid of 1¼-in. pipes, connected by U's at the ends, the individual pipes being about 1 in. apart.