

**The Knowledge Bank at The Ohio State University**  
**Ohio State Engineer**

**Title:** Back Matter

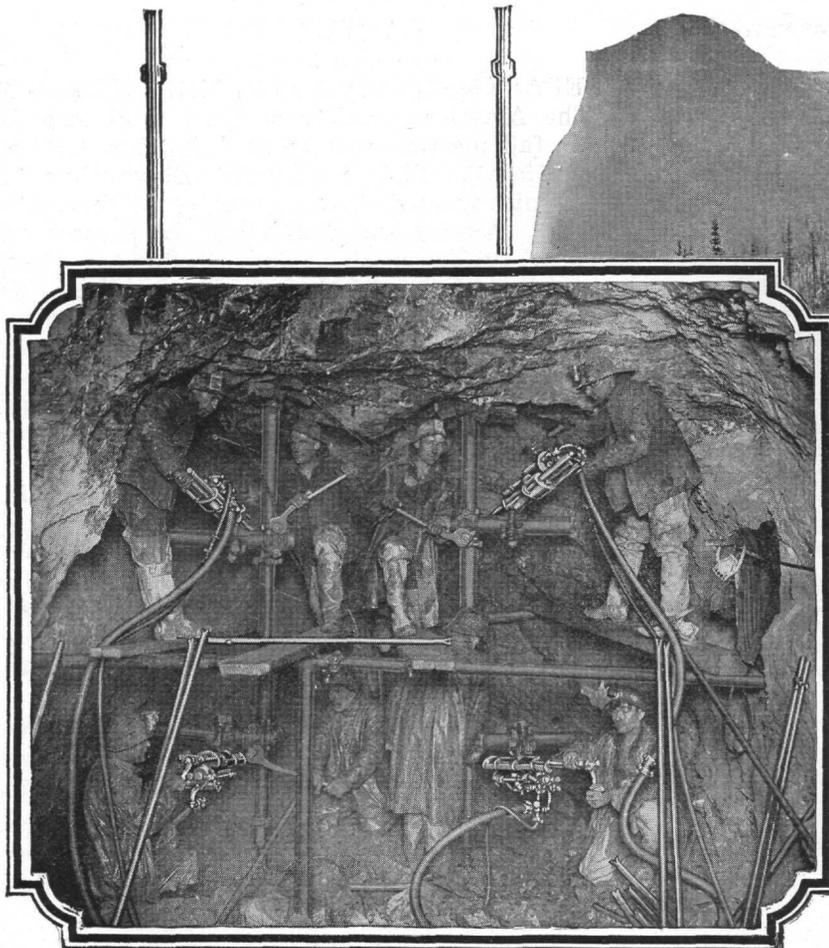
**Issue Date:** Oct-1927

**Publisher:** Ohio State University, College of Engineering

**Citation:** Ohio State Engineer, vol. 11, no. 1 (October, 1927), 32.

**URI:** <http://hdl.handle.net/1811/34255>

**Appears in Collections:** [Ohio State Engineer: Volume 11, no. 1 \(October, 1927\)](#)



*A group of Ingersoll-Rand Drifter Drills  
at work on the Cascade Tunnel job*

## One Million Dollars a Year

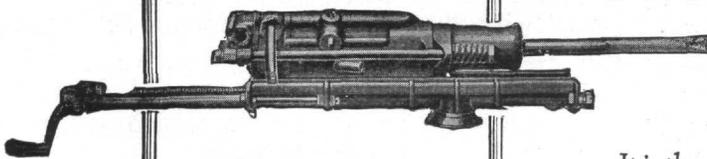
A new 8-mile tunnel, running straight through the heart of the Cascade Mountains, will ultimately save over \$1,000,000 a year for the Great Northern Railroad.

It is the urge of this possible saving that calls for the completion of the tunnel within the amazingly brief span of three years. The contractor has accepted this wager against time and is making records that have already aroused world-wide interest.

At the Mill Creek and East Portal sections of the job, Ingersoll-Rand R-72 Drills are used extensively. These rapid, sturdy, dependable drifters have more than held their own, making it possible to attain a daily footage of sometimes 40 feet.

In every heading, 24 hours a day, the drill crews and muckers are going into and through the rock. The race is one in which the keenest sort of rivalry prevails among the competing crews. It is a sporting contest that never lags—a contest calling for untiring effort and the very finest tools.

Throughout the world you will find I-R Drills on just such jobs as this. Built in many sizes and types, they are suitable for rock-drilling tasks in every kind of engineering work-



*The R-72 Drifter*



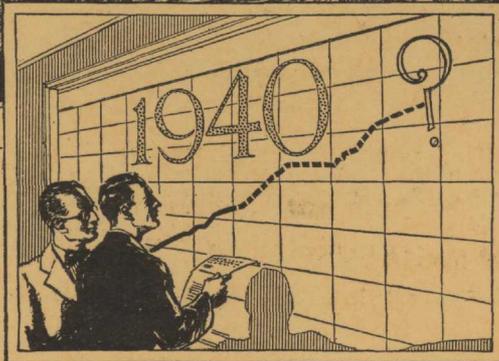
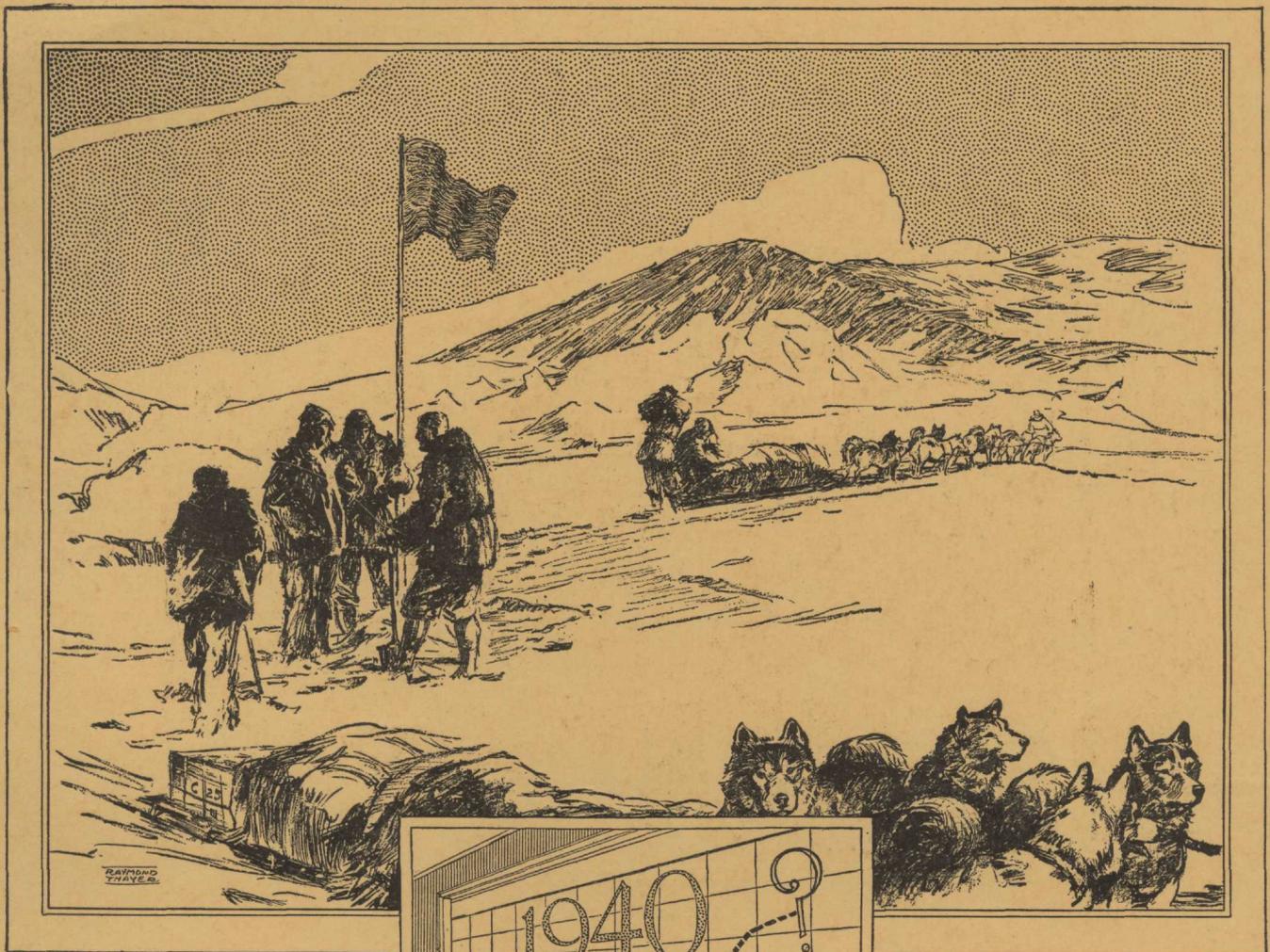
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# Ingersoll-Rand

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## Undiscovered country in industry

The globe's surface no longer holds much undiscovered country, but the pioneer-minded man can still find plenty of it in industry—particularly in the telephone industry.

In the Bell telephone companies throughout the entire country, men are now exploring the 1930's and 40's

and 50's, charting the probable trend of population and the requirements for service.

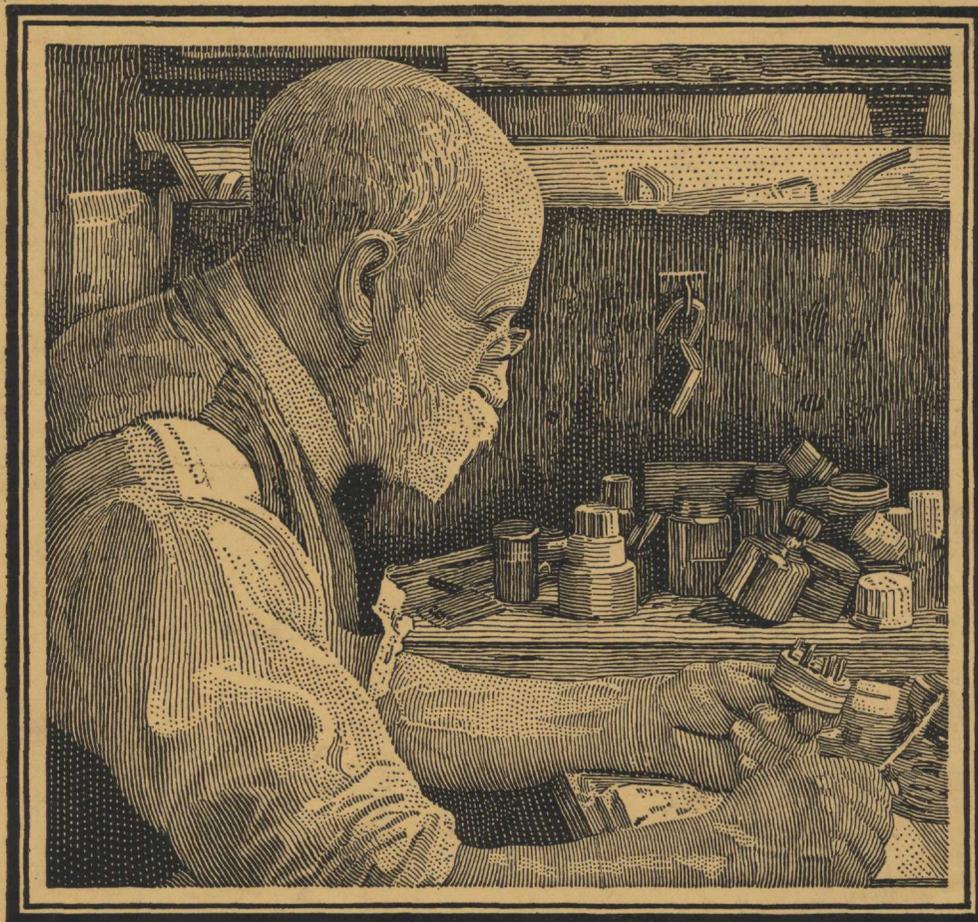
In research and development, and in telephone manufacture as well, the Bell System takes seriously its responsibility to give adequate service now and to gird itself for a long future.

### BELL SYSTEM

*A nation-wide system of 18,000,000 inter-connecting telephones*



“OUR PIONEERING WORK HAS JUST BEGUN”



From a painting, © by Gerrit A. Beneker

## Julien Charles Tournier

In the life program of Julien Charles Tournier, public recognition had no part.

He began as an instrument maker in Edison's laboratory. His forty-five years of service to electricity were completed in the same work, at the Schenectady plant of the General Electric Company.

He invented and contributed improvements to switches, sockets, fuse-plugs, and attachment plugs.

He might have retired, had he so chosen, and lived in comfort; but his love for electricity was his life, and he was content.

We publish his picture as a tribute to him and because he typified the thousands of men and women who have dedicated their lives to electrical development.

The world will never know their names. They have no craving to be known. But their devotion is something quite beyond the interest of men in ordinary business. They deal with a power of vast usefulness.

Within the ranks of the General Electric Company are many such men. Their spirit is the best assurance that electricity will year by year find more and better ways to serve.



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