

BICYCLE SURVEYING MACHINE

Device to Perform the Mechanical Part of a Surveyor's Work.

TRACING DONE AS YOU SPEED ALONG

Heights, Declivities and General Gradients of the Road Accurately Recorded—Its Great Utility in Map Making.

The newest use of the bicycle is as a surveying machine. Not merely a machine to carry a surveyor from point to point, but as a machine which performs in itself the mechanical part of the surveyor's work.

Setting all the camps and the strategic points, was recently made. A method of rapid road sketching was adopted, and 49,222 miles were surveyed by means of a bicycle equipped with a cycleometer and a compass.

It is also proposed that this invention be applied to mapmaking. The value of road maps would be considerably enhanced if all the grades could be shown as well as the distances.



AN AUTOMATIC SURVEYING BICYCLE IN OPERATION.

measuring the distance. On the strip of paper the exact height of the hills and the depth of the hollows are indicated.

UTILITY OF THE DEVICE.

The importance of the invention in military practice can be easily appreciated. Heretofore a chief engineer on a march can order his general to find out the exact topography of a road over which the army is to pass.

bicycle runs down a hill, the marker moves toward the lower edge of the paper strip; when the bicycle mounts a hill, the pointer travels toward the upper edge of the paper.

RECORD OF RAPID BICYCLE SURVEY—4,000 YARDS ALONG THIRD STREET, SCHENECTADY, NEW YORK.

Table with 2 columns: Time (min), Distance (yds). Shows a steady increase in distance over time.

PROPHETS ABROAD.

Queer Things Predicted in the European Almanacs for 1898.

Now that we have actually entered upon the new year, and thousands of prophetic almanacs will be regularly consulted for signs of notable events.

It Saves the Children.

From the Industrial World, Lucas, Ia.: All of our family have weak lungs and elderly men are suffering because of the prejudice of advisers against patent medicines.

Light Attendance at Bicycle Race.

PITTSBURG, Jan. 25.—There was a very light attendance at the twenty-two-hour bicycle race today and little interest was manifested.

Refuse Payment on Drafts.

SAN FRANCISCO, Jan. 26.—The Bank of California makes public the following statement: Recently quite a number of drafts have been presented and refused.

IMMIGRATION RESTRICTIONS

Absurd Features of the Educational Test if Put in Operation.

HARDSHIPS NOW IMPOSED BY LAW

More Un desirable Immigrants in the Cabin Than in the Steerage—Views of a Former Immigration Commissioner.

Mr. J. H. Sennar, late commissioner of immigration at the port of New York, contributes to the New York Independent a paper on the educational test for immigrants.

IMMIGRATION AT A STANDSTILL.

As a matter of fact, since the enforcement of the law of March 3, 1893, immigration has come to a standstill.

A SAND STORM IN THE DESERT.

The heat is sufficing and the sand beats in the skin like knives.

THE PAY OF PARLIAMENTS.

Boers Get Largest Salaries, but Our Senators Have Valuable Perquisites.

So far as payments in hard cash go, says the New York Sun, the brassy burghers of the Transvaal are decidedly the best off.

WORLD'S DRINK STATISTICS.

English Are Greater Beer Drinkers Than the Germans.

The country overabundant in Sir Courtenay Boyle, says the Pall Mall Gazette.

SERVANT GIRL QUESTION.

The enforcement of an educational test against women, requiring them to read and write, would be needless.

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See That Stamp! It is the Government external Revenue Stamp over the Cork and Cap of every bottle of...

OLD CROW and HERMITAGE WHISKIES. Certifying to the Age and Purity of the Whisky.

COOK REMEDY CO. BLOOD POISON A SPECIALTY. Cured in 15 to 35 Days.

MADE ME A MAN. AJAX TABLETS POSITIVELY CURE ALL Nervous Diseases.

COOK REMEDY CO. We Guarantee to Cure. AJAX TABLETS POSITIVELY CURE.

AN OPEN LETTER TO MOTHERS.

WE ARE ASSERTING IN THE COURTS OUR RIGHT TO THE EXCLUSIVE USE OF THE WORD "CASTORIA," AND "PITCHER'S CASTORIA," AS OUR TRADE MARK.

WINE OF CARDUI PERSONALLY RECOMMENDS IT. Atrins, Pope Co., Ark., Oct. 3th, 1897.