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SCIENTIFIC AND SANITARY.

Aluminum is being tried in the saddletrees and stirrups of certain cavalry in the Soudan. The saving of weight thus effected amounts to about six and one-half pounds.

A long distance telephone line in Spain, now under construction, from Madrid to Barcelona, and covering a route 500 miles long, will probably be completed in two or three months.

A British inventor has followed up the pneumatic tire and hub with a pneumatic wheel for bicycles. This is a flattened spherical chamber, fitted with compressed air, and contained within metallic side plates.

Bicycles are coming into increased use in the Belgian army, and the military authorities intend soon to establish a training school, to which every regiment will send a few men of the grade of corporal for instruction.

Turpin, the French inventor who makes such fearfully destructive war apparatus, has apparently eclipsed all his former efforts in this direction. *Le Temps* announces that he has just completed an electrically operated automatic mitrailleuse capable of discharging, at a minimum, 25,000 projectiles four times in fifteen minutes.—*Electrical Review*.

One of the deepest holes, made artificially, in the world, is the one sunk at Parvashowitz, in Western Siberia. It has a depth of 6,568 feet, and a diameter of 2.75 inches. Work has been stopped temporarily, in order to lower sensitive thermometers into the well; but eventually it is proposed to go down 8,000 feet. Temperature investigations afford the motive for this enterprise.

Motive power is soon to be distributed through the streets of Antwerp, in the form of water under high pressure. At numerous stations in the city there will be hydraulic motors, which will operate dynamos, to provide electricity for a limited region. The aim of this plan is to avoid the high cost of continuous current wiring and the high tension of the alternating current. It is a curious experiment.

The Greenwich Observatory, England, has received the promise of a 26-inch photographic telescope, to cost \$25,000. It will be used mainly for work on the international chart of the heavens at first. This instrument must not be confounded with the 28-inch glass which Mr. Clinistie has already been fortunate enough to secure at government expense. Sir Henry Thompson is the giver of the proposed telescope.

Annunciators, indicating the name of the next station, are in use on the Metropolitan and District suburban roads in and near London. They are set, after leaving a station, by pulling a cord. One official controls the apparatus in all the cars of a train simultaneously. This method of imparting information is an improvement on the one now in general use, of bawling out the names more or less indistinctly.

Experiments made in India under the auspices of the health authorities at Calcutta indicate that cholera may be prevented by vaccination with anti-choleraic virus. In a village of 200 inhabitants 116 were inoculated with this virus. Out of ten cases of cholera in a recent epidemic in the village, resulting in seven deaths, every one of the

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persons affected was among those who had not been treated. This may not be conclusive, but it is very reassuring.—*Philadelphia Record*.

Some months ago a Dublin inventor claimed for a preparation of his that it would preserve eggs in perpetual freshness. To thoroughly test the efficacy of the invention, which, if successful, would revolutionize the egg market, an experiment was carried out at the *Freeman* offices. A sample of eggs immersed in the patent solution, which is a thin grayish paste of the consistency of honey, have remained undisturbed there for a period of four months, and when opened the other night in the presence of experts were found to be all perfectly fresh.—*London Public Opinion*.

A new patent process of hardening steel articles which has been tried by Krupp, the Mannesheims and other German firms, is now being brought to the attention of British manufacturers. It is said that drills prepared by this method cut through the hardest steel without the aid of any lubricant, and last much longer than the usual run of drill. In the operation of hardening, the drill or other object is brought to only a dark-red heat, dipped in a composition known as "Durol" for ten to twenty seconds, then heated slowly until cherry-red, and cooled directly in tepid water.

When our consciousness turns upon the main design of life, and our thoughts are employed upon the chief purpose either in business or pleasure, we shall never betray an affectation, for we cannot be guilty of it; but when we give the passion for praise an unbridled liberty, our pleasure in little perfections robs us of what is due to us for great virtues and worthy qualities. How many excellent speeches and honest actions are lost for want of being indifferent where we ought?—*Sir R. Steele*.

Minard's Liniment Cures Garget in Cows.