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**SCIENTIFIC AND SANITARY.**

Celluloid may be made transparent, and a sheet of it coated with silver constitutes an admirable mirror. This substitute for a looking-glass cannot be easily broken, but it is very inflammable, and needs to be kept away from fire.

The electric launches in World's Fair waters are likely to be introduced to the canals of Venice ere long. Steam craft have now been in use in the latter city for a year or two; but the smoke which they throw off is one objection to them, and they are so large that they cannot easily thread the smaller canals.

In the countless looms of cotton mills the shuttles are driven to and fro by what are called pickers. These are made of raw hide and cost 45 cents. It has recently been discovered by an experienced loom-fixer in Lowell, U. S., that tough paper, prepared by hydraulic pressure and then varnished, will make a better picker, and cost only half as much.

The practice of tapping trolley wires for the purpose of running motors in buildings along the route of street railways, says the *Electrical World*, has assumed considerable proportions of late, and the attention of the New England Insurance Exchange has at last been called to it, with the idea of taking some measures to prevent what is considered a dangerous use of electricity.

The enormous extensions of electric wire into buildings for lights and telephones of late have led to so many accidents that the fire insurance companies of Providence have raised the rates about 20 per cent. It seems to be necessary for the people putting up these wires to provide greater safeguards, especially in the burial of street wires, against the danger referred to.

It is believed that lightning is visible at a distance of 150 miles, but it is still in controversy how far away thunder can be heard. A French astronomer has made observations on the subject, and he declares it impossible for thunder to be heard at a greater distance than 10 miles. An English meteorologist has counted up to 130 seconds between the flash and the thunder, which would give the distance of 27 miles.

It is proposed to equip the lighthouse at Fire Island with the most powerful electric light so used in the world. Fire Island is off the southern shore of Long Island, about forty miles east of Sandy Hook, and is the first beacon usually sighted by transatlantic vessels approaching New York. The new light, it is said, will be of 240,000,000 candle power. The one nearest to it in intensity at present is that near Havre, France, which is of 130,000,000 candle power.

Some recent tests of the Howells automobile torpedo at the Newport station, U. S., showed that a speed of twenty-six knots an hour may be obtained over an 800 yard course. This is faster than the Government contract requires. Further experiments are soon to be made with this projectile. The severest test will be to discharge one from the launching tube of the torpedo-boat *Stiletto*. The Howells torpedo is the most efficient, self-navigating American device of its kind, and is the invention of a naval officer.

In a recent paper by Dr. Gilbert, of the United States Geographical Survey, the theory is advocated that lunar craters have in general been formed by the bombardment of the lunar surface by meteorites. This is based on the phenomena of the planet Saturn, the disk-like ring around which is believed to consist of an indefinitely large number of very small bodies revolving about the planet in parallel orbits. Dr. Gilbert assumes that a similar ring of minute satellites, once encircled the earth, these gradually becoming aggregated into a smaller number of larger satellites, and eventually into a single satellite, the moon, the craters marking the spots where the last of the small bodies collided with the surface, when they finally lost their independence and joined the larger body.

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