

SCIENCE.

Before the imprint of the Journal bears date of 1890, science and art will have advanced as far as to have effected complete revolutions in many of the industrial processes and methods of securing health, comfort and convenience to the human race.

Vast gas manufacturing will be found in all the great cities and towns, in which the invisible agent will be manufactured solely for the purpose of cooking the food and warming the dwellings of the inhabitants. These works will be independent of those established for making illuminating gas. It will not be necessary to purify the fuel gas so fully, and it will, in most places, be made from wood. The cost will be low, and the convenience so great, other kinds of fuel will, in a large measure, be dispensed with. No ashes, no smoke, no dust—what a glorious realization this will be. At that time the air, the earth, and the sea will be full of conducting wires, and electric currents will flow constantly in every direction. A new order of things will prevail in our post-offices. The click of the telegraph instrument will be heard, instead of the snap of the lock which closes up the wide mouths of the mail-bags. The small sum of ten cents (perhaps less) will place correspondents in instant communication with each other, no matter how widely they may be separated. Although the industrial arts will have enormously increased, less steam power will be employed. Electrical, or some other of the hidden forces of nature will be harnessed to the primary moving wheels of the great manufacturing establishments, and smoke and vapor will no longer mark their location to the distant traveler.

The sick will not be required to swallow disgusting doses of medicine. Remedies will be administered through other avenues than the stomach. Chemistry will have eliminated the vital active principles from all curative agents; and, through the cellular subcutaneous coverings, and by other at present closed doors of access, the influence of therapeutic agents will be brought to bear directly upon diseased parts. Light will be let in upon nearly all the organs of the body, so that the physician can observe the extent and nature of disease, and no longer be compelled to diagnose in the dark.

The publishers of this and other journals will perhaps begin to issue simultaneous editions in all the great central cities of the country. A knowledge of practical science will be more generally diffused among the people, elevating and improving the mind and consequently rendering them happier, healthier, and better fitted for the duties and responsibilities of life.—*Boston Journal of Chemistry.*

Chemists and others know well the difficulty of keeping very volatile liquids. Bottles of ether, for example, are shipped for India, and when they arrive are found to be more than half empty. The chemist sometimes puts a bottle of benzole or bisulphide of carbon on his shelves, and when he next requires it he finds the bottle empty and dry. The remedy with exporters is, a luting of melted sulphur, which is difficult to apply and hard to remove. A new cement, therefore, which is easily prepared and applied, and which is said to prevent the escape of the most volatile liquids, will be useful information to many. It is composed simply of very finely ground litharge and concentrated glycerine, and is merely painted around the cork or stopper. It quickly dries, and becomes extremely hard, but can be easily scraped off with a knife when it is necessary to open the bottle.—*American Artisan.*

Dr. Phipson has recently discovered that an intense degree of cold is produced by dissolving sulphocyanate of ammonium in water. Many salts, more especially salts of ammonia, lower the temperature of water while dissolving; but, according to Dr. Phipson, no compound produces this effect in so marvelous a manner as sulphocyanate of ammonium. In one experiment 35 grammes of this salt, dissolved rapidly in thirty-five cubic centimetres of water at 33 degs. Cent., caused the thermometer to descend in a few seconds to 10 degs. Cent. The moisture of the atmosphere instantly condensed itself on the outside of the glass in thin plates of ice.—*Scientific Review.*

ACCORDING to a recent English invention the patentee reduces metal by means of teeth, formed of short pieces of bar steel or iron, which are held at the ends in two disks mounted on an axis. The iron or metal to be reduced is presented (usually when hot) to the teeth, by introducing it between two disks, in a radial direction; the metal is inserted into a guide through, and is pressed forward toward the center of the disks, so as to cause it to bear against the teeth. A plunger, actuated by a hand-lever, or tongs may be used to carry the metal forward.—*American Artisan.*

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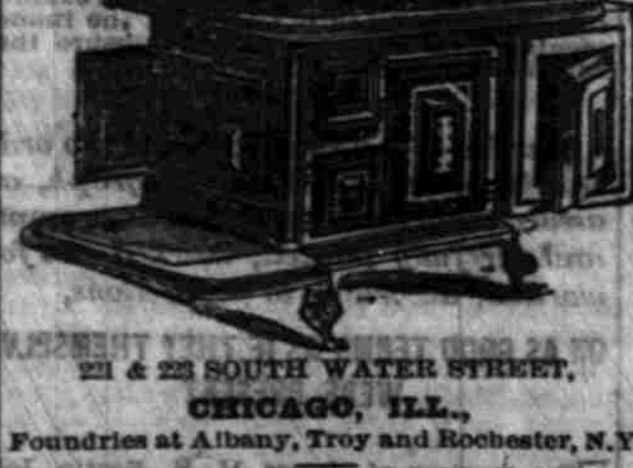


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