

Dayle's Wooling. Oh Jenny, cease your merry song, And stay your busy spinning; Ye ken that I've been wooling long, And yet I'm but beginning; For aye something or tither's wrong, And sets me back in winning.

time in the handling, and increased effectiveness of it, will pay good interest on the cost of a windmill, and a fodder cutter, to do the cutting. But if the stormy and disagreeable days are chosen to cut up straw for this purpose, an abundant supply can be made. A broad axe can be purchased for \$2 50, and with this and a block, a sheaf of straw may be cut into 3-inch chaff, in half a minute. Two persons, one to hold the sheaf on the block or plank, and the other to use the axe, would soon cut up a ton of straw. Where hard-wood saw dust, dry swamp muck, or pine straw can be procured, these make excellent litter and manure. —Agriculturist.

Edison's Latest Electric Light. It is somewhat strange that carbon, the only substance of any value for the contact surface of telephone transmitters, should also prove to be the only substance suited to the light giving portion of electric lamps. The production of an electric light by the incandescence of platinum is, for the present at least, laid aside by Mr. Edison for the more promising and more satisfactory carbon. Not the carbon so familiarly known in connection with electric lighting, but a new article having different qualities, and remarkable both for the simplicity of the process by which it is made, and its efficiency as a light-giving body when raised to incandescence by the passage of an electrical current.

The discovery of this new form of carbon was partly accidental, but more the result of Mr. Edison's faculty of seizing on the slightest suggestion and following it as long as it invites investigation. The first carbon prepared by Mr. Edison for this purpose was formed of a thread enveloped in a paste made of lampblack and tar, and carbonized by a high temperature. This carbon thread, although not remarkably successful, gave sufficient encouragement to warrant further investigation in the same direction. After the trial of a number of other substances it was determined that the best of all was paper, simple plain paper, without lampblack or other applications. In making these carbons the quality of cardboard or paper known as Bristol-board is used.

The manufacture of these little carbon "horsehoes," as they are called at Mr. Edison's laboratory, is very simple. The paper blanks, after being cut by dies in the form of a horseshoe, about the size of the periphery of a silver dollar, are subjected to heat sufficiently strong to drive off by destructive distillation all volatile matter. The paper horsehoes thus prepared are placed with alternate layers of tissue paper in shallow iron boxes, and weighted down with thin plates of ordinary carbon. These boxes are closed by tight fitting covers and placed in a muffle, when they are raised to a high temperature, which is maintained for a considerable time, until the horsehoes are reduced to the size of a common thread. The only index of the completion of the process is the cracking of the oxide formed on the exterior of the iron boxes. After cooling the carbons are removed from the iron boxes and placed between the jaws of small platinum vices, which are supported on thin platinum wires blown in the glass base and forming the electrodes. A portion of the glass base and the carbon and its supports are enclosed in a glass bulb, from which the air is so completely exhausted by means of a Sprengel pump that only a millionth part of the original volume remains.

Mr. Edison has improved the Sprengel pump so that high vacua may be produced in twenty-five minutes instead of the forty-five hours consumed in the operation by some of our physicists. The vacuum is so nearly perfect that none of the tests to which the lamps have been subjected so far, indicate the presence of the slightest trace of air. The electrical resistance of the slender carbon horsehoe is 100 ohms, and while the lamp is intended to afford light equivalent to a single four-foot gas jet, it may be forced to give a light equal to that of eight or ten such jets. We saw a single lamp of this kind that enabled us to read the American 100 feet away. This was certainly an extraordinary piece of carbon having a surface no larger than that of a thread.

The carbon is very tough and flexible, and not liable to be broken or injured by jars. We saw one of the carbon horsehoes nearly straightened before it broke. The carbon not only withstands rough mechanical usage; it is also proof against injury by the sudden turning on and off of the electric current. One of these carbons has been subjected to the severest test of applying and removing the electric current a number of times equivalent to thirty-six years of actual daily use, and yet the carbon is not the least impaired.

FOR THE FARMER'S HOUSEHOLD. BUTTER TAPPI.—One half-pint molasses, one half-pint water, one pound loaf sugar, one quarter pound butter. Let boil without stirring until, by dropping a little in water, you find it is done.

WINTERING SHEEP. Sheep should have better care in early winter than farmers are in the habit of bestowing. Wintering to make them live only, is not attended with profit. Let prices rule high or low. Sheep are commonly neglected more in early winter than any other part of the year, for they are often the very last taken from the pastures.

Forcibly of a Female Mob. A correspondent of the San Francisco Chronicle, writing from Callao, Peru, says: Upon the news announcing the loss of the Pinagua, an unfounded rumor was circulated in Lima and Callao to the effect that the Chilean soldiers had treated Peruvian women with gross brutality. This rumor spread like wildfire, and finally the streets were filled with abandoned Peruvian women, and with the lower classes of both sexes.

Wanted. Sletman & Co., Marshall, Mich., want an agent in this county at once, at salary of \$100 per month and expenses paid. For full particulars address as above.

Vegetine. A bright and beautiful child shows in its very expression that its Babynood was not associated with Opium, opium, etc.—for the continued use of Opium is antagonistic to health. That valuable and highly recommended remedy for the disorders of Babynood, Dr. Hilly's Babynood Syrup, is absolutely free from Opium and all other dangerous agents, as it can be safely employed at all times. Price 25 cents.

The Great Blood Purifier. Dr. W. Ross writes. Serofula, Liver Complaint, Dyspepsia, Rheumatism, Weakness.

DR. CLARK'S JOHNSON'S INDIAN BLOOD SYRUP. Laboratory, 77 W. 34 St., New York City, LATH OF FIFTH CITY. CURES NEURALGIA AND GONORRHOEA. CURES SCURVY AND ANEMIA. CURES PLEURISY AND BRONCHITIS. CURES GOUT AND GRAVEL.

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