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#### THE CULTURE AND MANUFACTURE OF SILK.

The war has done more than to unsettle and change the state of political parties. It has affected seriously the raising and manufacture of our great staple, cotton. The days of large plantations and aggregated settlements of farm laborers is past. Cotton will still continue to be an important staple mand for cheap fuel. Our coal mines will last us for of home manufacture and foreign export, but never an indefinite period, but owing to local or temporary again shall we see a whole section of country, comprising entire States, devoted almost exclusively to its cultivation.

the country at large, and through the country, for the advancement of the world—we are not sorry. There is a meaning in all this, a meaning not altogether comprehended by our political leaders and statesmen. We believe that a subdivision of labor and pursuits not only insures the best results in itself, but produces the best effects on the world at large. There are exceptional cases where a particular locality is better adapted to the production of a particular material or its manufacture than to anything else, but those instances are only exceptional. There is hardly any fertile region but will produce equally well the raw material for several important manufactures, and, in many cases, will afford equal facilities for its manufacture.

Atlantic States have endeavored to rival their sister States in its production, and, in some instances, with flattering results. But while the people have been engrossed with the production of the raw staple they have neglected its manufacture, purchasing, from those whose ingenuity has turned the product of their acres at a largely advanced cost. The manufacture of cotton at the South will undoubtedly hereafter become an important part of Southern wealth and importance.

which, as early as the times of James I., was introduced into Virginia, ought to engage the attention of practical men. Owing to the demand for ferring to cultivate the Indian weed to the production and others skilled in the silk business, were sent to deorgia, and succeeded in producing as fine a quality of silk as could be made in Italy, which commanded the 18th century the last lot of Georgia silk was

taken in Connecticut, and some excellent qualities of silk, raw and manufactured, were produced.

For some reason, however, the silk business has never been a favorite one in this country. One reason has been undoubtedly the necessity of careful attention to the worms and the treatment of the cocoons. with the necessity of skilled labor in the manufacture of the raw material. It is, however, now becoming an important business. In Hartford and Manchester, Conn., the Cheney Brothers have the most important silk establishments in the country. They manufacture ribbons and dress silks, in no way inferior to those imported, and often far superior. But all their material comes from China, Japan, or southern Europe. In Hartford, also, is the establishment of Tobias Kohn, a Hungarian, who furnishes the New York market with the best specimens of silk braids and trimmings. But all the raw material for these manufactories are drawn from the other hemisphere.

The southern portion of this country is especially adapted to the culture of the mulberry and the raising of the silk worm. There is no adequate reason why it should not furnish all the material necessary to keep our home manufactories running and encourage the erection of others. At the North, also, it has been proved that silk can be successfully cultivated. We believe this could be made an important branch of our manufactures and a large item in our material wealth.

### THE VALUE OF TIMBER.

We have already spoken of the attempts made to substitute some other material for fuel in place of mineral coal. Although, according to English statisticians, the limit of the production of coal in Britain can be approximately determined, and their calculations have engaged the attention of Government, this country leads off in the first successful attempt to provide for the possible contingency of an exhaustion of the coal beds, or, rather, here, to meet the decauses, it has become an object to find a rival to the black diamonds which underlie our soil.

But while the attention of our people is drawn to For the benefit of the South-for the advantage of the necessity of introducing a cheaper material than coal, as a fuel, our forests are rapidly wasting away. In localities not possessing good facilities for trans portation, the trees in the forests are ruthlessly sacrificed, and, if the waste continues in the same ratio for the next half-century as it has for fifty years past, there must be portions of our country which will be changed from fertile farms to barren wastes This is no fancy or sensational statement. The grand reservoirs of our springs, brooks, and rivers are our forests, except on the slopes of mountain ranges. They conserve the moisture deposited by rain and dew, by frost and snow, and deal it out through the arid and thirsty months, giving fertility and verdure to land that otherwise would not feed a goat. Forests serve a grand object in the economy Such, we believe, to be the South. The fulf of nature. They should be valued and protected. States appear to be the home of cotton. Some of the For this utilitarian reason, as well as for others of a more æsthetic character, we desire to see our forests preserved.

A trial lately made on the New Haven, Hartford, and Springfield Railroad, established, so far as a single trial could, the value of peat as a fuel above that of coal. The report of the run of twenty-six their plantations into useful fabrics, the crops of miles and return, demonstrated the fact that peat gave a greater heat, weight for weight, than the best coal, either bituminous or anthracite, at a cost of not more than sixteen per cent of that of coal. Here, then, is at least a partial substitute for coal as But the business of silk raising and manufacture a fuel, and we do not despair yet of the economical use of petroleum for that purpose. The gas from wells has been used economically and with excellent results in places where wells have been bored which Virginia tobacco, it did not flourish, the planters pre-yield gas rather than oil. Of course this material must, from its nature, be restricted in its application. of the web of the Chinese worm. In 1732, artisans But all these help to preserve our woods from the waste of burning.

The alarming inroads made of late years upon our forests, the continually exacting demands for lumber, the highest prices in London. Before the close of and its adaptation for thousands of purposes, make wood an absolute necessity. Yet although a very exported, owing to the revolutionary war and the large portion of our territorial area, less than a hunwant of interest in the business. About the middle | dred years ago, was covered by forests, it is a fact | patents.

of the century, or in 1747, its cultivation was under- | that large bodies of timber are now the exception rather than the rule. The forests of Maine, deemed at one time inexhaustible, the woody regions of Pennsylvania and Western New York, and even the forests of Canada, are yearly decreasing in extent. The the is found now in larger quantities in the lower peninsula of Michigan than anywhere on this northern continent. How long can it remain? This is a question for those who have calculated on the forests of Maine as inexhaustible.

To be sure, the prairie dwellers of the West, with a foresight and enterprise that does them infinite credit, have gone to planting trees; but the object is a temporary and present one. The nature of the growth is rapid, attaining quick maturity, and intended only to subserve a present interest. No permanent forests will arise on our prairies. The wood will be cut as fast as it grows. Under these circumstances the discovery of a material which will fulfill the purposes of fuel as readily and cheaply as coal or. wood, and the cessation of the wasteful destruction of timber by burning, in order to remove it from the soil, has become a necessity. We look to the inventive talent of the country—never yet appealed to in vain—to save to us and coming generations, those great storehouses of moisture-those equalizers of contingencies of the seasons—and depots for manufacturing material, our forests.

#### PARIS UNIVERSAL EXHIBITION.

A bill has passed the Senate-which will no doubt become a law—appropriating \$48,000 in coin to provide the furniture and fixtures for the proper exhibition of articles sent to the Paris Exhibition from this country. The sum of \$2,000 a year is appropriated to pay the principal agent. The sum of \$33,700 is appropriated for office rent in New York, freights on articles to France, and other contingent expenses; and a further sum of \$35,703 for railway transportation from Havre to Paris and returning, storage, clerk hire, etc. And, in addition to the above sums, \$10,000 are appropriated to pay the traveling expenses of ten professional and scientific Commissioners—to be appointed by the President—and ten additional Commissioners are to be appointed, who are to pay their own expenses. The total appropriation amounts to \$129,403, which include \$48,000 in

Senator Grimes offered an amendment, that no money be paid under the resolution until the French  $\P overnment \ gave \ ample \ assurance \ of \ the \ with drawal$ of French troops from Mexico, and urged that the whole exposition was got up on purpose to glority the infant Napoleon, now ten years of age, who had been made President of the Exposition. This proposition was gravely debated at considerable length. but did not find much favor.

We hope the French troops will be speedily withdrawn from Mexico, and that hereafter the Emperor Napoleon will mind his own business; but it would be unworthy a great Government like ours to exhibit such a spirit in reference to an exhibition of industry, which so many of our countrymen regard with deep interest.

## PATENTS IN CONGRESS AGAIN.

The House has had under consideration a bill authorizing the Commissioner of Patents to determine and decide an application of Jonathan Ball for the extension of his patent "for an improved mode of coating the interior side of water pipes with hydraulic cement." This patent was duly extended seven years by the Commissioner, and having, under operation of law, run twenty-one years, expired some time last year. Mr. Dawes, of Massachusetts, opposed the bill chiefly on the ground that it was against public policy for Congress to legislate to extend expired patents. He insisted with great justice that, after the patent had been opened to the public, by operation of law, for any one to enter fully upon its manufacture, it was not right for Congress to undertake to revive the right. The position taken by Mr. Dawes is impregnable and, we are happy to say, resulted in the defeat of the bill. Such legislation, if insisted upon, would soon make our whole patent system odious. We therefore, speaking in the interest of the great body of inventors and patentees, protest against all attempts to revive dead