The Wonderful Progress of the Nineteenth Century.

of the United States carried 60,061,063,996 tons of freight one mile, which was equivalent to carrying a thousand tons one mile for every inhabitant of this country, or one ton a thousand miles for each. The average cost of this service was \$10 per annum for each individual in our population. Had it been performed by horse-power its cost would have been \$200 for each inhabitant, or a sum greater than the value of the entire product of This means that the entire ue of all that the people of the United States produced in one year would not have paid the cost of one year's transportation in this country if done by the

A proper study of these statements will reveal the heavy handicap that is upon

as its use spreads there will appear a and some barren. Now he can know the

At the meeting of the British Association for the Advancement of Science in for the Advancement of Science in Sis Frederick Bramwell predicted that one who should attend the centenary the association in BCI "would see the esent steam engines in museums, treating the distinct operations of the same the open topped same cylinders of Newcomer and of neaton to ourselves, and that the heat gine of the future will probably be making of the future will probably be making of the engine has undergone wat improvement. Most people have restain that prior to 1873 steamships are not competitors with sail ships in the freight trade, because with the old yle making engine the tomage was exasted in carrying coal to propel the old, A 2000-ton steamer on a long syage had to carry so much coal that dy room was left for 800 tons of freight. There are in a pound 5000 ring a Those ten.

There are in a pound 5000 ring a Those ten. It is a pound to the same end, the securical proportions the flavors, the edule that in the way this business is now carried on, not only the whole while the greater part are also peculiar trades. On the wite and the wite of the greater part are also peculiar trades. On the wite of the greater part are also peculiar trades. On the wite of the greater part are also peculiar trades. On the wite of the flavor is of the same end, the way this business is now carried on, not only the whole with its distinction. The whole was the day and the went.

Stir Prederick Branwell predicted that the the the with a pay and the went.

But in the way this bu y room was left for 800 tons of freight.
The compound and expansion enset how in use the proportions are resed and 800 tons of coal will carry the sty-two hundred tons of freight and them upward of 48,000 pins in a day.

Contrasting this with pin-making to-day, a coale of an English shilling the size of an English shilling then burned in the compound engine of modern steamer would drive a ton of modern steamer would drive a ton of modern to the compound engine of modern steamer would drive a ton of modern to the compound engine of modern steamer would drive a ton of the farmer man had depended for this different man had depended for the interest of the farmer man had depended for this different man had depended for the many man had depended for many many man had depended for many man had depended for many man had depended for many

It is no longer necessary to accumulate great stocks of merchandise produced at a distance. The India wharf and warehouses in Boston are obsoleted. The cocan be also where on the plants into new ed to by a clement cocity of vegetable and the cocan be also where on the plants into new ed to by a clement cocity of vegetable and the cocan be also where on the plants into new ed to by a clement cocity of vegetable and the cocan be also where on the plants into new ed to by a clement cocity of vegetable and the cocan be also where on the plants into new ed to by a clement cocity of vegetable and the cocan be also where on the plants into new ed to by a clement cocity of vegetable and the cocan be also where on the plants into new ed to by a clement cocity of vegetable and the cocan be also where on the plants into new ed to by a clement cocity of vegetable and the cocan be also where on the plants into new ed to by a clement cocity of vegetable and the cocan be also where the coca

A proper study of these statements will reveal the heavy handicap that is upon any people who have not these modern methods of transportation by land and sea. It brings before the mind the great transformation scene that will occur in any of the hermit nations when they take to themselves this use of mechanical power, which has been the agent in the world's vast increase of production and distribution.

Sir Frederick Bramwell predicted that engines operated independently of the expansive force of steam would largely supplant the vapor of water. He pointed to the gas engine then in use up to an energy of forty horsepower and to the electric dynamics as a means of distribution.

This has enabled high commercial organization the power of the world to avert anywhere on the planet the fluctuation in prices formerly caused by glut or familie. It has raised the intellectual plane of all occupations. At the beginning her forces to his use has of ne-the century the farmer was everywhere a peasant, with no horizon beyond his landmarks. At its close the farmer is an international merchant. He knows how the products that compete with his are given great progress in the economic conditions of man and these ways. Along with these marvelous changes in the economic many of the business men of the world to avert anywhere on the planet the fluctuation in prices formerly caused by glut or families. It has raised the intellectual plane of all occupations. At the beginning her forces to his use has of ne-thermit national merchant. He knows how the products that compete with his are given anywhere on the planet the fluctuation and the sex-themselves this use of the century the farmer was everywhere anywhere on the plane of all occupations. At the beginning the forces to his use has of ne-themselves this

been equal progress in the operations of enci-finance and business. A merchant in San det-Francisco goes to his office in the morn-ing, orders a cargo in Melbourne. Bom-bay or Calcutta, pays for it in London Cali-exchange, has it insured, and by the time he goes to lunch the smart stevedores are applica putting it on board, and the transaction mology, has occupied less time than a lady requires to buy an Easter hat. - experiments.

cables and system of exchange make the handling of goods from the antipodes as little difficult as ordering meat for dinner by telephone from the market stall ten blocks away.

Burbank, the king of and others have product that have shown how ve subordination of nature to This has enabled high commercial organthose who are wise in her

dynamo must have something to do with the manufacture of dynamite. So much is the manufacture of dynamite. So much is there in a name. The final triumph over the prejudice of the Sultan is said to have been due to a Spaniard and the cinematograph. This Spaniard. Don Ramirez by name, started a circus in Constantinople, and in order to be up to date, imported a cinematograph. But the city authorities would not allow him to set his new instrument in operation, because it had to be driven by the condemned electricity. In his difficulty he applied to his Embassador, who promised applied to his Embassador, who promised to do his best for him. During the next audience which he had with the Sultan, the wily diplomat took occasion to enlarge on the wonders of the cinematolarge on the wonders of the cinemato-graph, and interested the Sultan so much that Don Ramirez was ordered to bring his instrument to the palace. Moving scenes from the leading capitals of Eu-rope were thrown upon the screen for the delectation of the Sultan, who no doubt enjoyed them all the more since he is not, like his friend the German Kaiser, a great traveler. Among the direct results great traveler. Among the direct results of this exhibition was that the Sultan became convinced that electricity, though produced by a dynamo or a battery, had no connection with dangerous explosives; the lucky Don got kudos and wealth, and

