

was also awarded a bronze medal at the French Exposition in 1801.

On returning to Lyons, he met with great opposition from the weavers there, who endeavored to forcibly suppress the invention. The "Conseil de Prudhommes," a board of master workmen in the various branches of trade, who are appointed to look after the manufacturing interests, adjust wages, and settle disputes between masters and workmen, ordered his machine to be broken up in the public place, and, according to Jacquard's own expression, "the iron sold for iron, the wood for wood, and he, the inventor, was delivered over to universal ignominy." The value of the invention was, however, soon appreciated elsewhere, and was finally recognized by the Lyonese themselves, to whom it has since proved of inestimable value.

Jac'quard Loom. A loom for weaving figured goods. A chain of perforated cards is made to pass over a drum, and the strings by which the threads of the warp are raised pass over an edge with a wire or leaden weight of small diameter suspended from each. These weights, at each stroke of the loom, are presented to each successive card, and some of them are intercepted by the card while others pass through the holes therein, the latter thus determining which threads of the warp shall be raised. In this way the figure on the card determines the nature of the figure on the fabric.

Jacquard, the inventor, was a straw-hat manufacturer at Lyons. His attention was first directed toward mechanical inventions by a reward being offered for the production of a machine for making nets. He produced the machine, but did not claim the reward. The attention of Napoleon was called to his inventive genius, and he was sent for to ascertain if he could not improve on a loom belonging to the government. This was designed for weaving shawl patterns in imitation of cashmere, and its setting up and arrangement were very troublesome and expensive.

The great war minister Carnot is reported to have said to Jacquard, "Are you the man who can do what the Almighty cannot : tie a knot on a stretched string?" Jacquard, improving on the model of Vaucanson, produced the apparatus which bears his name, and was rewarded with a pension of 1,000 francs. This was afterwards increased to 6,000. He