first distinct advance.

In 1865 Pierre Lallemont, a Frenchman, exhibited a bicycle with the naturally found its way to this councranks and pedals attached to the try. It met with immediate disfavor front wheel, which was also the larger of the two. Previous to that time, the front wheel had always been the smaller. Lallemont's invention was the forerunner of the "ordinary" or high bicycle, which was so familiar and in such general use twenty years later. In 1868 the rubber tire was introduced, and other improvements followed in time. It was not until 1876, however, that a bicycle, in the general acceptance of the term, was seen in America, and not until the following year that an American, A D: Chandler, of Boston, was in actual possession of one.

The Englishmen were quicker to realize the advantages of the wheel, pneumatic tire became known that and for a time all bicycles used in A- cycling can be said to have had a merica were of English make. In really permanent foundation, and to 1878, however, a sewing machine no other invention is due the present company in Hartford, Conn., under- happy condition of things. The new took their manufacture, on a small tire wrought a great change in the scale of course. That it was not a construction of bicycles. gold mine may be imagined from the their average weight. Witness that fact that one year later the sales of it has reduced the mile record from bicycles in this country had reached 2:22,3-5 to 1:40,3-5. Yet how few a total of exactly ninety-two. In know how much of this is due to the November, 1879, there were, by actual insistence of an eight-year-old boy, census, easily taken, just thirty-five Inventor Dunlop's son? wheels in New York City.

men were arrested for daring to ride was then eight years of age. For a in Central Park, in New York City

general use. The previous year-re- object of reducing vibration, and rencall Dalziel's invention and note how dering the propulsion of vehicles history repeats itself-a low-built comparatively easy.

bicycle, driven by chain-power, had made its appearance in England, and and when, in 1887, a woman's bicycle was invented by a Washingtonian, the roar that went up-the suggestion of immodesty which it conveyedproved such a shock to the public that it was years before it recovered. But it did recover, as all the world now knows.

The pneumatic tire-invented by a veterinary surgeon, J. B. Dunlop, of Belfast, Ireland-came out in 1889, and completed the "death" of the "ordinary," although, as a matter of fact, it was not until 1863 that the air tire was fully understood and was in general use.

It was not, however, until the reducing

"In 1885," says he, "I bought a Even as late as 1883 three wheel- tricycle for my only son, John, who few years previous to that I had been Until 1886 the high wheel was in thinking of spring wheels, with the