

Low Level Laser Therapy

Faith Jackson & Akeem Blalock
1st period



Who and when was the product invented?

The first laser was made in 1960 by a hungarian physician named Endre Mester. The LLLT was developed in 1967 after the first laser was made.



Endre Mester, MD



What need did the product address?

This product addressed the need to treat the wounds, and physical composition of our bodies. It regenerates cell productivity within us.

What materials were originally used to make the product?

The materials used to make the laser was a light bulb or light source and something to magnify(usually a pair of mirrors).

Patents?

- Arthur Schawlow and Charles Townes in 1957 were first to invent their optically pumped "maser". This invention was based upon their open cavity" concept design (talked about in the next slide). The first laser patent was given to them.

- Gordon Gould then fought for several patents as he was the first to publicly use the term laser as the name of Townes and Schawlow's design at the Ann Arbor Optical Pumping Conference in 1959.

- Of the existing 55,000 laser patents, Theodore Maiman's may be most significant; as he was to innovate the maser into a working invention, with commercial flash lamps as laser medium. He was then followed by several groups of laser developers in production.

Patents?

- Arthur Schawlow and Charles Townes in 1957 were first to invent their optically pumped "maser". This invention was based upon their open cavity" concept design (talked about in the next slide). The first laser patent was given to them.
- Gordon Gould then fought for several patents as he was the first to publicly use the term laser as the name of Townes and Schawlow's design at the Ann Arbor Optical Pumping Conference in 1959.
- Of the existing 55,000 laser patents, Theodore Maiman's may be most significant; as he was to innovate the maser into a working invention, with commercial flash lamps as laser medium. He was then followed by several groups of laser developers in production.

How was the product originally made?

*The **L**ight **A**mplification **S**timulated **E**mission **R**adiation was originally consisting of some type of sealed tube with a pair of mirrors at an end of the tube. The mirror reflecting a visible light, and/or invisible ultraviolet or infrared radiation called the laser medium. The original laser medium used was sunlight.*

What improvements have been made to the product?

LLLT was a modification to the tube, making it hand held. They now seemingly work like flashlights. With LED (Light Emitting Diodes) bulbs in the sealed rod/bar. Still reflected by pairs of mirrors to project the LED light.

What improvements have been made to the product?

***LLLT was a modification to the tube,
making it hand held. They now
seemingly work like flashlights. With
LED (Light Emitting Diodes) bulbs in the
sealed rod/bar. Still reflected by pairs
of mirrors to project the LED light.***