

Laser-Light™ Bonding System

During Dr. Nicholson's orthodontic residence at The University of Tennessee he was taught state of the art techniques for attaching braces to patient's teeth. He learned that the self-cure bonding system produced very weak bonds and the braces did not consistently stay bonded to the teeth. Because of the numerous bond failures, most of the braces were attached to patient's teeth on bands that went between and completely around each tooth. This banding process produced a strong reliable bond, but the process was time consuming and quite often could not be completed in one visit due to the pain it caused the patient.

Dr. Nicholson had the idea of using a light cured adhesive to bond the braces to the teeth. He investigated this possibility, but was told by numerous professors that it could not be done. In a laboratory study he discovered a way to produce a bond that was approximately twice as strong as the current self-cure adhesives. Additionally, the adhesive does not harden until the light is directed onto it. This gives the orthodontist unlimited working time to place the braces in their ideal position on the patient's teeth. This ideal placement resulted in the patients having beautiful smiles with a quick and easy process without pain.

The United States Patent Office granted Dr. Nicholson three patents for his innovative idea, which is known as the Laser-Light™ Bonding System. He licensed this state-of-the-art system to numerous companies, and today it has become the most popular way orthodontists bond braces to their patient's teeth.

