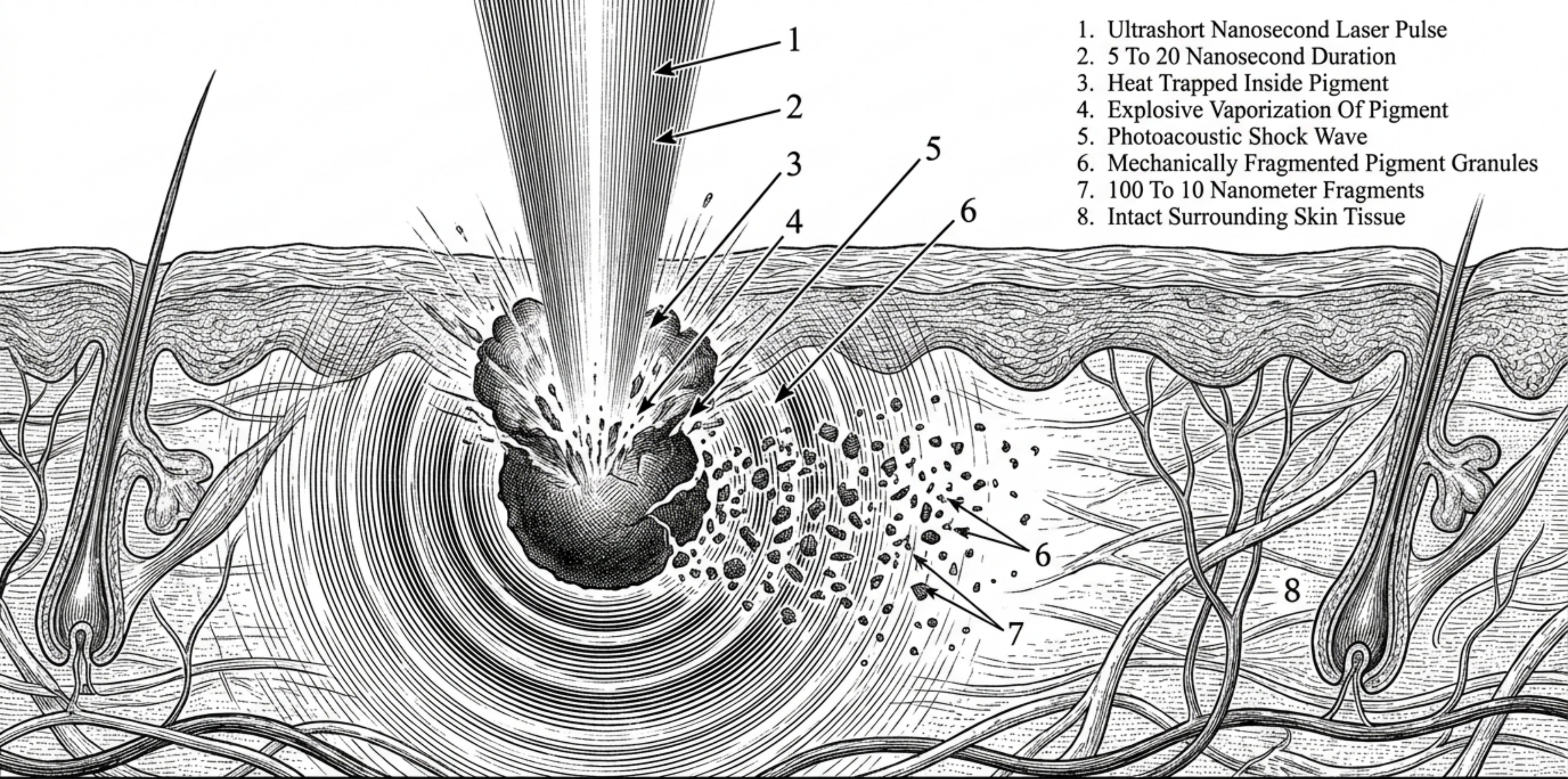




1. Ultrashort Nanosecond Laser Pulse
2. 5 To 20 Nanosecond Duration
3. Heat Trapped Inside Pigment
4. Explosive Vaporization Of Pigment
5. Photoacoustic Shock Wave
6. Mechanically Fragmented Pigment Granules
7. 100 To 10 Nanometer Fragments
8. Intact Surrounding Skin Tissue

Ultrashort laser pulses create photoacoustic shock waves that mechanically fracture pigment without burning surrounding tissue.

SELECTIVE PHOTOTHERMOLYSIS AND PIGMENT FRAGMENTATION