219-121 SR
12/22/81 XR 4,307,046

T1T1

United States Patent [19]

Neefe

[11] **4,307,046**

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[54] **METHOD OF LASER MACHINING CONTACT LENSES**

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Related U.S. Application Data

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[51] **Int. Cl.**³ **B29D 11/00**

[52] **U.S. Cl.** ..... **264/1.4;** 219/121 LF; 219/121 LM; 219/121 LN; 264/2.5; 264/2.7; 331/DIG. 1; 351/177

[58] **Field of Search** ..... 264/1, 25, 1.4, 2.7, 264/2.5; 219/121 LN, 121 LJ, 121 LF, 121 LM, 121 L; 331/DIG. 1; 351/177; 51/284 R, 284 E; 408/701

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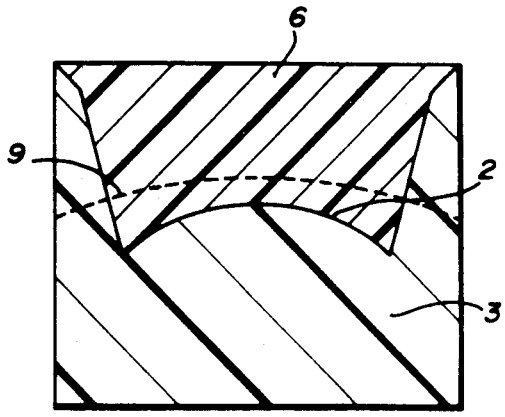
Primary Examiner—James B. Lowe

[57] **ABSTRACT**

A method of cutting spherical, aspheric and toric optical surfaces by rotating the lens around the optical axis and moving a cutting device on a X and Y axis to produce the desired lens shape. The energy provided by an infrared laser may be used for simultaneous machining and polishing the optical surface.

10 Claims, 4 Drawing Figures