350-3.64 SR SUBSTITUTE FOR MISSING XR

XR 3,940,748

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X 3048 R

United St

Carson

[11] 3,940,748

[45] Feb. 24, 1976

[54] **OPTICAL INFORMATION PROCESSING SYSTEM WITH COLOR CENTER CRYSTAL**

[76] Inventor: **Arthur N. Carson,** 14 Daniel Road, Bristol, Conn. 06010

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Related U.S. Application Data

[63] Continuation of Ser. No. 525,484, Feb. 7, 1066, abandoned, which is a continuation of Ser. No. 217,858, Aug. 20, 1962.

[52] **U.S. Cl.** ..... **340/173 CC;** 350/160 R

[51] **Int. Cl.**[2] **G11C 13/04**

[58] **Field of Search** ..... 350/160 R, 160 P; 340/173 R, 173 CC, 173 LT; 331/94.5

[56] **References Cited**

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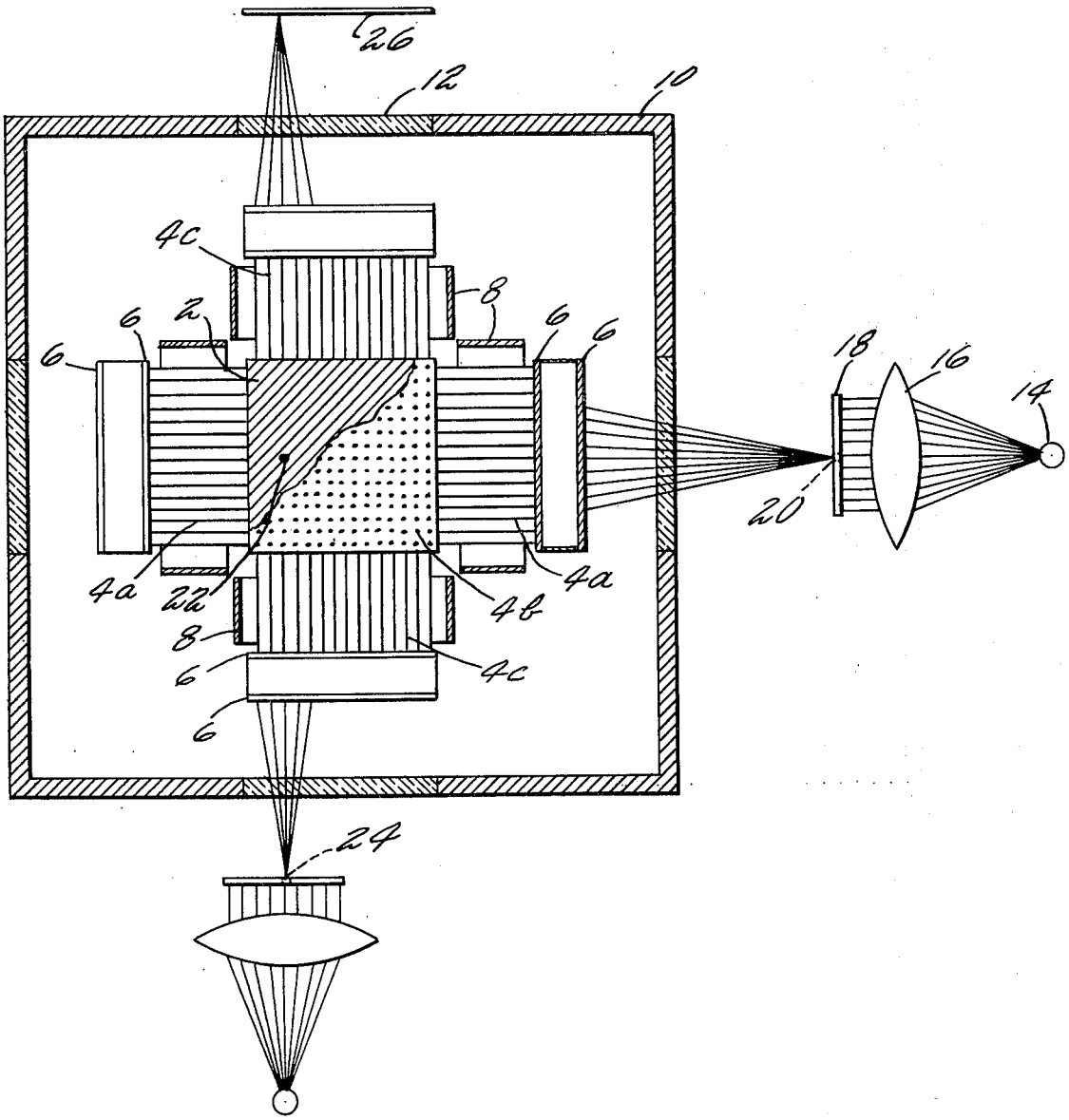
Primary Examiner—Stuart N. Hecker

[57] **ABSTRACT**

An optical information storage and retrieved system is presented wherein intersecting beams of coherent light at least one of which is information bearing are used to change the state of color centers in a crystal to effect information storage. Information is retrieved or read out by determining the state of color centers in the crystal.

20 Claims, 5 Drawing Figures



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