HOLOGRAMS DATA IN 3-D

Computer-age science has veloped a laboratory tool for mory-banking an immense ount of information and withdrawing it almost instan-

The key to this storage-and-retrieval breakthrough is the hologram, which has the addi-tional capability of producing photographic images in 3-D

The hologram is made by exposing a photographic plate to two laser beams, hair-thin streams of pure, intense light. One beam illuminates the plate directly. The other illuminates the object, reflects from it, strikes the plate and interacts, "interferes," with the first wave. The interference pattern is permanently recorded throughout the thickness of the plate as a combination of lines, specks and swirls a shorthand which can be selectively recalled by light as images of the original objects. At Bell Telephone Labora-

tories, where holography is being investigated, a spokesman said that the hologram has "an enormous potential" as a memory device. A single tiny hologram plate can be divided several thousand individual areas, each holding a 'page" of instructions. Thus, millions of bits of information could be stored, for instance, into a compact electronic switching system for rapid, efficient telephone communi-

As a 3-D projector, holography's most striking feature is the image which it "floats" the holographed object.

Bell Labs recently delows an observer to see all the way around a threewith a strong white light cracking occurs.



M. C. King of Bell Telephone Laboratories aligns a pinhole aperture in the path of a laser am used to illuminate a new kind of hologram. The three-dimensional image rotates through a full circle as the viewer moves his head from left to right in front of the flat hologram. Conventional flat holograms show only one as-pect of the image.

source. This development could make illustrations leap from textbook pages in 3-D. For example, physics or biology texts could present a "float-ing" three-dimensional view of models of complex molecules or organisms. Or art books could show sculpture in the round-to all appearances, as solid as the Venus de Milo.

Holography also is being used in fracture mechanics the science of determining when beyond the plate as the twin of and where metal will crack under stress. When a metal sample is subjected to stress veloped a hologram which al- while being viewed through its dimensional image simply by terns are set up at stress points, moving his head from side to It is thus possible to detect the side while viewing the plate weak spots long before actual

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Winslow Oil Company

Hertford, N. C.

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EXECUTOR'S NOTICE In the General Court of Justice

Superior Court Division Having qualified as Executrix of the estate of Lawrence M. Dowd, late of Chowan County, North Carolina, this is to notify all persons holding claims against the estate of said deceased to present them to the undersigned on or before the 25th day of March, 1970, or this notice will be pleaded in bar of any recovery thereon. All persons indebted to said estate will please make immediate payment.

This 18th day of September, 1969. JEANETTE H. DOWD,

Executrix of the Estate of Lawrence M. Dowd, Deceased. Merrill Evans, Jr.,

Attorney at Law, P. O. Box 74, Edenton, N. C. 27932 exp Oct 16

Administrator's Notice In the General Court of Justice

Superior Court Division Having qualified as Administratrix of the estate own superimposed holographic of Louis H. Craddock, late image, visible interference pat- of Chowan County, North Carolina, this is to notify all persons holding claims deceased to present them to the undersigned on or before the 26th day of March, 1970, or this notice will be pleaded in bar of any re- To Willie Ray Rankins: covery thereon. All persons indebted to said estate will please make immediate payment.

This 18th day of September, 1969. SARAH L. CRADDOCK. Administratrix of the Estate of Louis H. Crad-

dock, Deceased. exp Oct 16c

Administrator's Notice Having qualified as Administratrix of the estate of John C. Cobb, late of Chowan County, North Carolina, this is to notify all persons holding claims against the estate of said deceased to present them to the undersigned on or before the 26th day of March, 1970, or this notice

LIKE MAD?

will be pleaded in bar of any recovery thereon. All

Get this doctor's formula! Zemo speedily stops torment of externally caused itching ... of eczema, minor skin irritationa, non-poisonous insect bites. Desensitiza-poisonous insect bites. Desensitiza-poisonous insect bites. Desensitiza-face germs. "De-itch" skin with Zemo—Liquid or Ointment.

mediate payment. This 17th day of Sep-

tember, 1969. MATTIE B. COBB,

Deceased.

Administrator's Notice In the General Court of Justice

Superior Court Division Before the Clerk Having qualified as Adof Ernest J. Hudson, late sought. Chowan County, North of Carolina, this is to notify all persons holding claims against the estate of said deceased to present them to the undersigned on or before the 11th day of March, 1970, or this notice will be pleaded in bar of any recovery thereon. All persons indebted to said estate will please make im-

mediate payment.

NORA D. HUDSON,

son, Deceased. Merrill Evans. Jr., Attorney at Law, P. O. Box 74, Edenton, N. C. 27932

Sept 11 18 25 Oct 2 Notice Of Service of Process By Publication In The District Court

Chowan County. against the estate of said Judy Welch Rankins, Plaintiff VS.

State of North Carolina,

fendant

persons indebted to said ing seeking relief against aforesaid, bounded and deestate will please make im- you has been filed in the above entitled action.

cel of land, together with The nature of the relief being sought is as follows: An action for absolute di-Administratrix of the Es- vorce on the ground of one tate of John C. Cobb, year separation next preceding commencement of this action.

You are required to make defense to such pleading not later than the 13th day of November, 1969, and upon your failure to do so the party seeking service against you will apply to ministratrix of the estate the court for the relief

> This 22nd day of September, 1969. LENA M. LEARY,

> Clerk of Superior Court, Chowan County. Exp Oct 16

NOTICE OF SALE

North Carolina.

Chowan County. 'Under and by virtue of

authority conferred by that This 27th day of August, certain deed of trust, the power of sale contained therein having become ab-Administratrix of the Es- solute, executed by Durtate of Ernest J. Hud- ward O. Travis and wife, Pauline Simmons Travis, to the undersigned Trustee, dated July 22, 1963, and duly recorded in the office of the Register of Deeds of Chowan County, North Ca rolina, in Book of Real Estate Mortgages No. 81 at pages 107-108, the undersigned Trustee will, on Tuesday, October 28, 1969, at 1:00 o'clock P. M. before the Court House door in Edenton, N. C., offer for sale to the highest bidder Willie Ray Rankins, De. for cash the following described real estate lying and being in the Town of Take notice that a plead- Edenton, State and County

strictions, covenants and immediate payment. reservations of record af-That certain lot or parfecting the above described 1969.

property. ments thereon, numbered the first \$1,000.00 and five (5%) per cent of the baland designated as Lot No. ance of purchase price will

3 of the subdivision of the Morris property as per plat be required of the successthereof duly of record in ful bidder at time of sale. the office of the Register Dated and posted this September 26, 1969

W. S. PRIVOTT. being the same property exp Oct 23 Trustee.

Administratrix Notice

conveyed to the said Durward O. Travis and wife, Having qualified as Ad-Pauline Simmons Travis, ministratrix of the estate by John L. Forehand, Jr., and wife by deed dated of Glenn E. Bunch, late of May 15, 1948, and duly re-Chowan County, North Cacorded in the aforemenrolina, this is to notify all tioned office in Deed Book persons holding claims page 291, said plat and against the estate of said deed and those instruments deceased to present them mentioned therein being to the undersigned on or hereby referred to and before the 2nd day of made part hereof for fur-April, 1970, or this notice will be pleaded in bar of ther description and chain any recovery thereon. All Sale will be made sub- persons indebted to said

ject to all conditions, re- estate will please make This 2nd day of October,

EDNA K. BUNCH, Ten (10%) per cent of Administratrix of the Estate of Glenn E. Bunch,

Exp Oct 23c



MANN'S AUTO SALES & SERVICE, INC.

Hiway 17 North OPEN 8 A. M. TO 5 P. M.

scribed as follows:

all buildings and improve-

of Deeds of Chowan Coun-

ty, North Carolina, in Plat

Book No. 1, page 20, and

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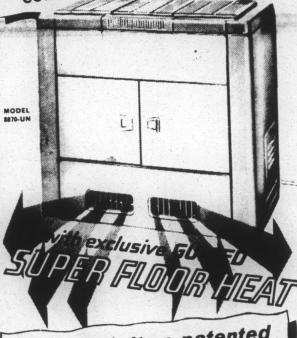
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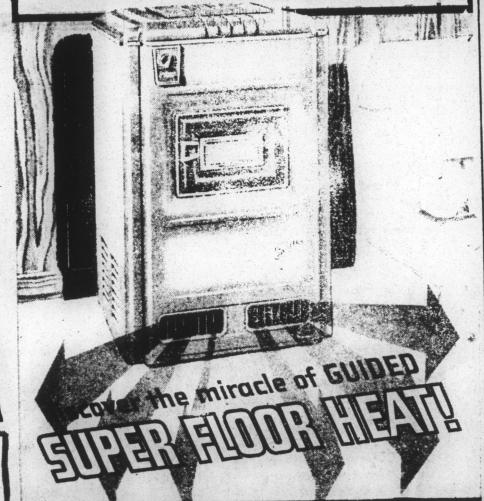
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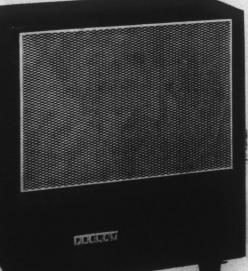
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