NEW MODEL GENEVA LENS MEASURE
Never Shown Before

Reviews of Current Ophthalmological Literature of the World.

Interesting Facts About Reading.

It was a song by the late great singer, who incidentally was also an avid reader of both fiction and non-fiction. The song was titled "Reading in Bed," and it went something like this:

"Reading in Bed.

Reading in Bed.

I read in bed until the sun rose, until the moon waned, until the stars fell from the sky."

But back to the measurement of the eye, which is the subject of our current discussion. The measurement of the eye is crucial in the field of ophthalmology, as it helps in understanding various conditions such as astigmatism, myopia, and hyperopia. The process involves the use of a variety of instruments, including refractometers and keratometers.

One such instrument is the GENEVA Retinoscope.

The GENEVA Retinoscope is a device that is used to measure the internal diameter of the eye. It is used in conjunction with an ophthalmoscope and is particularly useful in children, where the use of a direct ophthalmoscope can be challenging.

The measurement of the eye is performed by first focusing the light from the retinoscope on the retina of the eye. Then, the retinoscope is rotated to obtain an image of the retina, and the diameter of the retina is measured.

The results of the measurement are then used to determine the refractive error of the eye, which is the difference between the actual refractive power of the eye and the ideal refractive power. This information is then used to prescribe corrective lenses, such as glasses or contact lenses, to correct the refractive error.

The GENEVA Retinoscope is a reliable and accurate instrument that is widely used in clinical settings. It is easy to use and requires minimal training to operate. It is also portable, which makes it ideal for use in clinics that serve rural or remote areas.

In conclusion, the measurement of the eye is a critical aspect of ophthalmological practice. The GENEVA Retinoscope is a valuable instrument that plays a crucial role in the accurate measurement of the eye, which in turn helps in the successful correction of refractive errors.
Southern Opticians
Please Take Notice

F. A. Hardy & Co., Wholesale and Manufacturing Opticians, of Chicago,
now have opened a branch house
at Atlanta, Ga., for the accommodation and benefit of the Southern Optical Trade.
It is thoroughly equipped with a complete stock of goods and machinery
for filling orders for all kinds of Prescription Work.
It is in change of a competent force
sent from their Chicago establishment.
Send your orders for Optical Goods and
Prescription Work to

F. A. HARDY & CO.
405 Prudential Building
Atlanta, Ga.

Let us send you our Catalogue

The Perfect Lens Cabinet

Dimensions: 135 inches high, 22½ inches wide, long, 13½ inches deep.
Will hold 12 pairs interchangeable lenses, from 0 to 3 eye.
Handsome case in oak or walnut.
Each contains 6 drawers with two polished, nickel-plated drop pulls and a nickel-plated label holder.
Grooved partitions in drawers are made of cherry wood, thus adding to durability. Bottom drawer contains a space 2½ inches wide for screwdrivers, etc., etc.

A New Feature of the cabinet is that in each drawer two rows of lens strips or proving partitions are borne and can be removed, leaving a space which can be used for frames, etc., until wanted for lenses.

JOS. B. BECHEL & Co.,
70 Sansom St., Philadelphia, Pa.

NATIONAL OPTICAL CO.
11th & Mifflin Streets
PHILADELPHIA

Said to be the best for the money.
No doubt about it.
All exposed parts covered with Rolled Gold—NOT ELECTRO-PLATED.
Sample sent by mail on receipt of 50 cents.

Ask your jobber for our
Warranted 5 Years
Gold Filled Spectacles
Number

466

GOLD FILLED SPECTACLES

Reviews of Current Optometric Literature.

[Continued from page 552]

a new feature of the present examination is the following description of the experiment given by Helmholtz in the second edition of his "Physiological Optics" (p. 158), "There we may see an experiment in which it was proved, and in which I was compelled to adopt the idea of the movement of the lens that is called for by the motion of the eye..."

In Fig. 4, we see that in an eye in darkness, the black elliptical lens lies on one's face, while in an eye in light (Fig. 5) the elliptical cilia send depths from between the nodal rods, which move the black circular rods, the reaction of the pupil...""...

THE KEYSTONE

December, 1910

Ocular Hemorrhage.

On the side of the Atlantic Ocean n

One or both of the symptoms is caused by the contraction of the cilia between the aqueous humor and the anterior chamber of the eye. The symptoms are:

1. Pain in the eye.
2. Redness of the eye.
3.3. Increased tear production.

In severe cases, these symptoms may be accompanied by:

1. Blurring of vision.
2. Photophobia.
3. Hellophobia.

The condition is more common in young people and in females.

In rare cases, it may be caused by:

1. Trauma to the eye.
2. Inflammation of the eye.
3. Certain systemic diseases.

In the absence of any apparent cause, it may be treated with:

1. Cold compresses.
2. Analgesics.
3. Antimicrobials.

Prevention:

1. Avoidance of exposure to bright light.
2. Regular eye examinations.
3. Elimination of factors that may cause irritation.

Table: Diagnosis and Management of Ocular Hemorrhage

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Causes</th>
<th>Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pain</td>
<td>Trauma, inflammation, infection</td>
<td>Cold compresses, analgesics</td>
</tr>
<tr>
<td>Redness</td>
<td>Trauma, inflammation, infection</td>
<td>Cold compresses, analgesics</td>
</tr>
<tr>
<td>Increased tears</td>
<td>Trauma, inflammation, infection</td>
<td>Cold compresses, analgesics</td>
</tr>
<tr>
<td>Blurring of vision</td>
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</tr>
</tbody>
</table>

Key Words:

- Ocular Hemorrhage
- Diagnosis
- Management
- Prevention
- Causes
- Symptoms


[Continued on page 553]
Solid Gold Spectacles and Eyeglasses
Gold Filled Spectacles and Eyeglasses
Eyeglass Chains and Hooks
Chatelaine Spectacle Cases
Longnective
Field and Marine Glasses
Telescopes and Spy Glasses

Solid Chate laine Spectacle Eye-Glass Chains and Eye-Glass(s
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Cold? Cold! How Cold?

Get a stock of
Plate-Glass Window
Thermometers

Our 1900 173-page Catalogue mailed on application.

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8th Koenen & Bro.  
New York, U. S. A.

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Optometrists

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61 Nassau Street
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Manufactured and printed by
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8th Nassau Street
New York, U. S. A.

THE MEYROWITZ MFG. CO., Incorporating
Wholesale Manufacturing Opticians.

George P. H. C. Moore, Proprietor.

December, 1907

CHAPTER IV

General Optical Principles: Refraction, Aberrations, etc.

There is more or less confusion and uncertainty regarding the optical properties of the human eye, and the effect of light on it. The eye is a complex organ, composed of various parts working together to form a complete system of vision. Different parts of the eye have different refractive indices, causing light to be bent at different angles as it passes through them. This bending of light is known as refraction. There are several types of refraction, including spherical, cylindrical, and spherical aberration. These can cause problems such as astigmatism and myopia. To correct these problems, lenses are often used to alter the direction of light beams entering the eye.

SKIASCOPY.

The microscope of the eye is a homographic and monoscopic. The pupil is circular in a horizontal plane, the eye is circular in a vertical plane, and the image is circular in both planes. The image is not changed by movement of the eye or by changes in the distance of the object. The image is not distorted by the curvature of the cornea, and it is not changed by the curvature of the lens.

A. Koenen & Bro.
8th Koenen & Bro.
New York, U. S. A.

The Clamshell Style

The last page of the document contains a page of text and an illustration of a microscope and its components. The text is largely in English and discusses the optical properties of the eye and the use of microscopes in medical practice.

THE KEYSTONE

A. Koenen & Bro.
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The Clamshell Style

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WHAT IS SAID OF THE HARDY OPHTALMOMETER

The N. A. HARDY and Co., of Chicago, are the manufacturers of the Hardy Ophthalmometer, a device for measuring distances for ophthalmic purposes. It is designed to make accurate measurements of the distance between the cornea and the fundus of the eye, and to determine the focal length of the eye. The instrument is particularly useful in the treatment of cases of strabismus, and in the detection and measurement of astigmatism.

The Optical Questions and Answers section provides valuable information on various aspects of ophthalmology. For example, it discusses the principles of light and vision, the anatomy of the eye, and the physiology of the visual system. The section also includes practical advice on the care and maintenance of the ophthalmometer, as well as troubleshooting tips for common issues that may arise during use.

The Keystone Optical is a well-known brand in the field of ophthalmic equipment. The company produces a wide range of instruments and devices, including the Hardy Ophthalmometer. The Keystone Optical is dedicated to providing high-quality, reliable equipment that meets the needs of professionals in the field of ophthalmology.

We have many other resources available for those interested in learning more about the Hardy Ophthalmometer and the field of ophthalmology. For example, we offer a comprehensive range of literature and training materials, as well as ongoing support and assistance to help users get the most out of their equipment.

BRANCHES

ATLANTA, GA
DENVER, CO
PARIS, FRANCE

AGENTS

For the Pacific Coast, California Optical Co., San Francisco, Cal.
For Philadelphia, W. Baer, Philadelphia.
A Most Useful Holiday Present

We wish to call the attention of the dealer to the

NEW PRICES
of the

Goerz Triered Binoculars as follows:

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>B &amp; O</td>
<td>$25.00</td>
</tr>
<tr>
<td>M &amp; O</td>
<td>$20.00</td>
</tr>
<tr>
<td>B &amp; M</td>
<td>$15.00</td>
</tr>
<tr>
<td>M &amp; M</td>
<td>$10.00</td>
</tr>
</tbody>
</table>

We believe it to be a great advantage to you, if you have been using our fine optical instruments, to take notice of the new prices and to give us the opportunity of supplying you with our latest models. We are confident that you will be pleased with the improved quality and durability of our binoculars.

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An Explanation of How and Why the Bausch & Lomb Binoculars Develop the Latest Impacts

Our New Catalogue is now ready for distribution. It is full of the latest products and improvements. We believe that our catalogue will be of great value to you.

Optical Every Vision

Our New Catalogue is now ready for distribution. It is full of the latest products and improvements. We believe that our catalogue will be of great value to you.

Gold Filled, Silvered, and Gold Frames

Also Special Orders, Custom, and Other Frames

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We will send this FRIED on application to dealers.

The W. G. Fay Mfg. Co., Springfield, Ohio

The Bay State Optical Co., Attleboro, Mass.
Have you seen the “Flanged Guard” with the flat top post for Eye Glasses and Frames?

Mountings: With this your screw will not work loose. Your frame will always be locked tight.

Made in all metals by

The Standard Optical Co.
Genoa, N.Y.

NOW IS YOUR TIME
while our stock is complete, to order

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Black Morocco and Fancy Colors
Black with Giraffe and Elkskin
Pearl White Oriental and Smoked
Pearl with Giraffe or Pearl Bead Binding

Remember we carry the largest and most complete stock in the East. We also have all the latest styles and finishes in Silver, Gold Plated, Gun Metal and Solid Gold Lorgnettes. WHY NOT increase your stock by carrying this line of Thermocromes and Mirrof. We have them and at the right prices too. In the next few months people will spend lots of money for Eye Glasses. You might as well have some of it. Write us and we will send you catalogue and prices.

SPECIAL!

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THE GLOBE TRIDENT INSCRUTABLES have also been reduced in price.

GLOBE OPTICAL CO., BOSTON, MASS.

Bioncular View.

This is the true prism display; it involves a bioncular view, and it is used to demonstrate the true prism display. The reason for this is that the bioncular view is the most natural way of looking at the world, and it is the way in which the human eye is most naturally adapted to see the world. The bioncular view is also the most efficient way of using the eye, as it allows the eye to make use of the full range of its capabilities. The bioncular view is also the most comfortable way of using the eye, as it allows the eye to maintain a steady focus on the object being viewed.

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We have been practically "Snowed Under" with applications since the advertisement of our special offer appeared in last month's KEYSTONE.

Every mail has brought from ten to fifty requests for particulars, or applications for a scholarship.

Nearly every State and Province in the United States and Canada have been heard from, and our lists and cards of those already admitted are nearly filled.

If you have not yet received our circular, ($.25.00 for $7.50), we will be glad to send you a copy upon request.

It will give you particulars in detail of our special club rate plan by which you can secure a full graduate course in optics for less than one-third of the regular tuition fee.

We are only taking a limited number of pupils under this offer.

It is therefore a real case of first come, first served.

Write us for particulars to-day.

The South Bend College of Optics
(South Bend, Indiana, U.S.A.)
We Have Captured Two Medals at the Paris Exposition for Optical Goods

OPERA-GROUPS

ONE FOR TRIAL CASES and TRIAL FRAMES,
THE AUDEMAIR
TRIAL LANE
IS RECOMMENDED AS THE STANDARD.
BRAN, AUGUST, 1918.
ONE MEDAL FOR SUPERIOR WORKMANSHIP,
SHOP, STYLE, QUALITY, FINISH, IN
SPECTACLES and EYE-GROUPS,
OXO, ORNATE FILES, ALUMINUM and STEEL.
If selected, used for our 50-Cents Frameless Glasses.

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SPENCER and MACK PATENTS

In FRANK, GOLD, PLATED, SILVER and ENAMEL.
The Spencer group is designed to accommodate person's face and is efficient and comfortable.

SPENCER OPTICAL INSTITUTE

THE OLDEST SCHOOL IN THE UNITED STATES
The entire world is the laboratory of a graduate in optics.

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The ONLY soft leather case that protects eyeglasses.
Eizards and knot are subject to metal press.
It is a perfect fit for all glasses.

H. L. FERGUSON
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G. MAYER
510 S. Bost, BALTIMORE, MD.

B. MAYER
490 S. Bost, BALTIMORE, MD.

Klein School of Optics

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Manufactured in three styles and sizes:
Standard Offset Eye-Glass, Extra Size Offset Eye-Glass and
Riding Bow.

Oriental Manufacturing Co.

31 Hartford St., Boston, Mass.

THE MUNDORFF PATENT

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The only case manufactured with an invisible spring holding cover tightly closed, likewise open, with metal hinge, outwearing three ordinary cases with plush and leather hinge: no button, strap or other attachment used that belong to a past age, and, last but not least, the price as low as the lowest. Once used always used.

Manufactured in three styles and sizes:

ALL JOBBERS HAVE THEM.

Oriental Manufacturing Co.

31 Hartford St., Boston, Mass.

A New Era in Eye-Glass Cases

The only case manufactured with an invisible spring holding cover tightly closed, likewise open, with metal hinge, outwearing three ordinary cases with plush and leather hinge: no button, strap or other attachment used that belong to a past age, and, last but not least, the price as low as the lowest. Once used always used.

Manufactured in three styles and sizes:

ALL JOBBERS HAVE THEM.

Oriental Manufacturing Co.

31 Hartford St., Boston, Mass.
Chicago Letter.

(Continued from page 8)

C. C. Cole, of Lone Falls, Iowa, has been spending additional time at the auction house this week. He has been busy preparing for the Winter sale, and also for the Winter sale in his new store in the city. Mr. Cole is expected to make his first trip to the auction house in the next few days.

W. W. LUTHER, Agent, Jewelry Department.

Chicago, Ill., November 2, 1908.

L. M. CROSBY, Manager, Jewelry Department.

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are built on honor, of the finest material and best workmanship. Our No. 2 Jewelers' Outfit is very complete, and you are ready for all kinds of Engraving in a few hours after receiving the machine.

Jewelers' Outfit No. 2, Latest Model, consists of

1. Eaton-Engle Engraving Machine, No. 2, 1900 Model, with Ornamental Iron Stand.
2. Sets of Type: Old English, Gothic and Scrolls.
3. Set Scrolls and Ornaments, with Old Fellows and Masonic Emblems.
4. Bird Patterns.
5. Type Case.
6. Coin-Plate Holders.
7. Napkin Ring Holder.
8. Thimble Holder.
9. Seal Holder.
10. Ring Holder.
11. Universal Novelty Holder, and attachments.
12. Hollowware Holder.
14. Linograph Outfit for Monograms, Portraits, etc., including Two Sets of Letters.
15. Victor Graver Sharpening Outfit.

TERMS:

Cash within 30 days from date of shipment .... $75.00
$14.00 Cash with order and $6.00 per month for 6 months
$15.00 Cash with order and $5.00 per month for 14 months

To insure prompt shipment of goods send cash or New York references with order, and if buying on installments send references and amount of first payment.

All orders should be sent direct to us.

THE EATON & GLOVER CO.
87 Nassau Street, NEW YORK
Twin Triumphs of the Dying Century

THE AMERICAN WATCH and WATCH CASE

In 1853
the first American machine-made watches were placed on the market. In the same year Jas. Boss, a watch case maker of Philadelphia, whose name is now familiar the world over, was busy perfecting the idea of the filled case. Such was the simultaneous origin of two of the largest industries which the dying century is about to transfer to the care of her young successor.

Think of it! The Jas. BOSS case tried and tested by over fifty years' wear, and now known wherever civilization has reached as "the standard of the world." There are actually in existence to-day cases, made by Jas. Boss's own hands, which have been worn ever since and which will greet the new century without having betrayed the fact that they are FILLED cases. Surely there is reason in the comparison "good as solid gold." Such is the basis of the BOSS guarantee.

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END OF REEL
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