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work at the World's Fair, Chicago, Ill.,
being the largest number of awards ob-
tained by any exhibitor, and more than
double the number given to all other
sewing machines. For sale, lease and
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prompt attention. All work guaranteed
to be the same as done in factory.

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The pleasantest, quietest, shadiest
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resort on the Islands. It is only four
miles from the heart of the city and
within easy reach of the tramcars which
run every twenty minutes or oftener.
Elegantly furnished detached cottages
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the city hotels, and all the modern con-
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Of Incalculable Value in Medi-
cine and Surgery.

FLUCTUATIONS OF THOUGHT.

Possibilities Not Yet Known—Of Great
Usefulness Than the Photograph.
Universally Experimented In by Sur-
geons—Gall Stones Located by X Rays

Nothing more interesting has come
before the world in this last decade of
the century than Prof. Rontgen's dis-
covery of the X rays.

The sensational phase of the discov-
ery has now passed away, and the sober
scientific discussion of it has now
arrived. At present the only practical

study; and Thomas A. Edison feels
assured that he will be able to pho-
tograph the human brain and even show
the fluctuations of thought. Prof. Neu-
sur, in Vienna, has photographed gall
stones in the liver of one patient and a
stone in the bladder of another.

Some of the latest photographs taken
by aid of the X rays are given in the
plate accompanying this article. They
were taken by Dr. Robb, Professor of
Physics at Trinity College, Hartford.
The Crooke's tubes used were larger
than ordinary, being pear-shaped and
eight inches long by four inches broad
in the widest part. Figure 1 shows the
bony structures of the body of a fish,
photographed through the flesh. Fig-
ure 2 shows a razor photographed
through the leather case, and the bone
handle. Figure 3 gives the skeleton of
a frog, also photographed through the
flesh.

A device has been found for render-
ing the shadowgraphs immediately vis-
ible. A. A. Campbell Swinton writes
as follows to the British Medical Jour-
nal concerning his own method, which
he entitles "Cryptoscopy":

"I have succeeded, by means of the
Rontgen rays, in actually seeing the
coins inside a leather purse, the metal
instruments inside a closed wood and

MONEY SAVING PLANS

Senate Conference Committee
Favors Retrenchment.

REPORT READ YESTERDAY.

Short Sessions in Both Houses—Duty on
Light California Wines—Cannot be
Removed—Bills Referred to Com-
mittees—Adjourned Till Monday.

Senate met at 10 a. m., and after
prayer by Chaplain Peck the Act to
amend "an Act relating to duties on
legacies, bequests and inheritances"
was taken up. Senator Kauhane in
the chair. Act read first time and under

"Fourteenth—Salary of clerk of land
records and copying patents, \$1,800.

"Fifteenth—Salary of Deputy Regis-
trar and copyist, \$3,000.

"Sixteenth—Additional salary of De-
puty Registrar and copyist for January,
February, March and April, 1896, \$100.

"Seventeenth—Salary of Road Super-
visor, Honolulu, \$4,300.

"Eighteenth—Additional salary of
Road Supervisor for January, Febru-
ary, March and April, 1896, \$100.

"Nineteenth—Electric light regular
pay-roll—One inspector at \$125 per
month and that he devote the whole of
his time to the care of the Government
electric light plant.

"Dynamo men—One at \$80 and one
at \$65 per month; one line-man at \$55
per month; one station keeper at \$55
per month and two trimmers at \$55
each.

"Additional pay-roll—Superintend-
ent electric light works for January,
February, March and April, \$200.

"Recapitulation—Attorney-General's
department, \$380,420; Interior Depart-
ment, \$29,980.

CECIL BROWN,
F. S. LYMAN."

On motion of Senator McCandless the
report was adopted.

President Kauhane appointed the
following members as a committee to
examine Government buildings: Hol-
stein, Lathrop, Hocking, Baldwin and
Horner.

Minister Damon stated in answer to
Senator Schmidt's question regarding
the admission of California light wines
free from duty, that such action could
not be. The loss to the Government
would amount to something like \$15,-
000, and besides all countries must be
treated alike.

Adjourned at 10:45 until Monday.

House of Representatives.

When the House was called to order
yesterday morning it was very evident
that all of the Representatives present
were just in the right mood for work,
but as luck would have it there was
very little of that necessary article to
be done, so the Representatives did
what they had to do with as much show
as possible. This took them, counting
recesses and all, a little over three-
quarters of an hour.

Rep. Bond reported for the Printing
Committee that House Bill No. 24 had
been printed. The same committee
asked for further time on House Bill
No. 19. Granted.

Speaker Naone announced the re-
ceipt of a communication from Rep.
Richards asking the permission of the
House for an eight days' leave of ab-
sence. He said he had neglected to ask
the House on the previous day. When
the communication was read Rep. Rich-
ards was speeding away in the direc-
tion of Hilo on the Kinau.

Senate Bill No. 8 announced on the
order of the day, but no items had been
reported on.

Rep. Rycroft made a motion to lay
the bill aside. He thought the Tax bill
would probably change its whole ap-
pearance.

Rep. Kamaoaha moved to take up
second reading of House Bill No. 23,
relating to unlawful sexual intercourse
and the provision of remedies for the
evils arising therefrom. Referred to
the select committee having other kind-
red matters under consideration.

House took a five minutes' recess at
10:20 a. m.

Rep. Robertson presented the report
of the Conference Committee as read in
the Senate.

Report laid on the table to be con-
sidered with the bill.

House adjourned at 10:45 a. m. until
10 a. m. Monday.

The Charleston Coming.

The United States cruiser
Charleston is having more bad
luck. After her recent breakdown
at Japan a new piston was sent
over to her by the Union Iron
Works, and it was thought
that she would soon be able to
start for this port. She was about
to sail when it was discovered that
she had smallpox on board, and
in consequence she was kept five
days in quarantine at Nagasaki.
The afflicted seaman was re-
moved to the pest house and after
that the officers of the cruiser had
her thoroughly fumigated.—S. F.
Examiner.

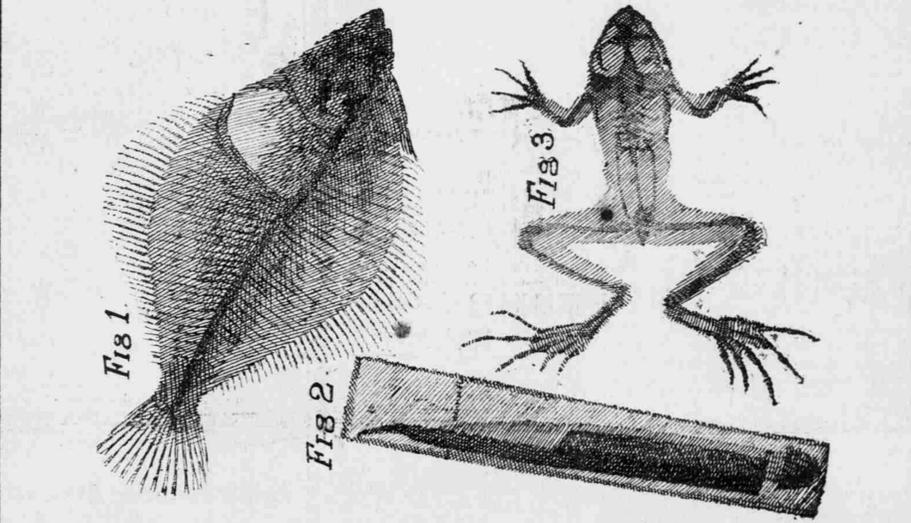


Figure 1—Bony structure of a fish photographed through the flesh. Figure 2—Razor photographed through
leather case and bone handle. Figure 3—Skeleton of a frog photographed through the body.

application being made is the medical
or surgical. All the laboratories
throughout America and Europe are
busy with it, and fresh developments
are being announced almost daily.

The Rontgen rays are certain invis-
ible rays resembling, in many respects,
rays of light, which are set free when
a high pressure electric current is dis-
charged through a vacuum tube. A
vacuum tube is a glass tube from
which all the air, down to one-mil-
lionth of an atmosphere, has been ex-
hausted after the insertion of a plat-
inum wire in either end of the tube,
for connection with the two poles of a bat-
tery or induction coil. When the dis-
charge is sent through the tube, there
proceeds from the anode—that is, the
wire which is connected with the posi-
tive pole of the battery—certain bands
of light, varying in color with the col-
or of the glass. But these are insignif-
icant in comparison with the brilliant
glow which shoots from the cathode, or
negative wire. This glow excites bril-
liant phosphorescence in glass and
many substances. Prof. Rontgen dis-
covered that during the discharge oth-
er rays are set free, which differ great-
ly from those described by Lenard as
cathode rays. The most marked dif-
ference between the two is the fact
that Rontgen rays are not deflected by
a magnet, indicating a very essential
difference, while their range and pen-
etrative power are incomparably great-
er. Exactly what kind of force has
thus been discovered no one at present
is able to decide. We only know them
as X rays. But the key in the hands of
the scientist must turn the lock of mys-
tery a little further, and human knowl-
edge become exact upon the point.

The most striking thing at present
in this new photography is that it can
penetrate flesh. Its power of penetra-
ting a purse or a pocket to show what
is enclosed within is striking enough,
but at present such a feat is but like
the photograph; it has little practical
utility. But the power to penetrate
flesh is practical. We can see some in-
stant good that may come from it. In
fact, instant good has come from it.
In Berlin, not only new bone fractures
are being immediately photographed,
but jointed fractures, as well, in order
to examine the results of recent sur-
gical work. In Vienna, imbedded bul-
lets are photographed, not probed for.
In London, a sailor completely paral-
yzed, and whose injury was a mystery,
was saved by photographing an object
imbedded in his spine. This proved to
be a small knife-blade. Prof. Czermak
of Graz has photographed the living
skull, and is now at work upon brain

leather case, a coin through a piece of
wood half an inch in thickness, and
also through a sheet of aluminum. Pho-
tographs were not employed, but the
shadows of the enclosed objects were
made directly visible to the eye by
means of a fluorescent screen. . . .
The apparatus consisted of a tube
of opaque pasteboard with a simple
aperture at one end, to which the eye
was applied. The other end was pro-
vided with an opaque diaphragm of
double black paper upon which, on the
inner side, was laid a piece of blotting-
paper upon the inner impregnated
screen. The platinum wire fluoresced
brightly under the stimulus of the rays
on those portions of the blotting-paper
where no shadow was cast, and conse-
quently the form of the metallic ob-
jects was made clearly visible. Non-
metallic objects were also clearly seen,
though more faintly, owing to their
greater transparency to the rays.

In the United States a similar set
of experiments has been carried on, with
the result that the fluorescent screen
responds so quickly that motion of
invisible objects can be clearly seen
on it. Prof. Edward W. Thompson of
New York says:

"An experiment was performed con-
sisting of opening and closing a pair of
pincers which were absolutely invis-
ible to the eye, but the shadow of the
moving parts was clearly visible. These
experiments would prove that with the
present condition of the X rays the
skeleton of a fish could be seen to move
backward and forward in the act of
swimming, as well as the skeleton of
small objects while in motion, and per-
forming the functions of life."

The Mount Lebanon Arrives.
The O. R. & S. N. steamer Mt.
Lebanon, McLean master, arrived
at 6:45 p. m. yesterday, 10 days
from Victoria, her last port. After
leaving Portland, on April 9th,
she called at Astoria and then
went to Victoria. A pleasant trip
was experienced. The captain
reports that while 150 miles away
from Hawaii he could see the reflec-
tion of Mokuaweoweo. The
Mount Lebanon brought 350 tons
of freight for various consignees.
She is booked to sail for Yokoha-
ma and Hongkong at 4 p. m. to-
day, but it is probable she will not
get away until Sunday.

suspension of rules was read second
time by title.

Under suspension of the rules Sena-
tor Brown from the Conference Com-
mittee read the following report:
"Your committee of conference beg
leave to report that they met the House
Committee on Conference on the sev-
eral items of the salary and pay-rolls
appropriation bill and report as follows:
"The Conference Committee recom-
mends the concurrence by the Senate
with the following items referred to
them, same having been agreed to by
the Conference Committee of both
Houses:

"First—That the title to the bill be
as amended by the House, the same be-
ing required by Subdivision 6 of Arti-
cle 70 of the Constitution.

"Second—Salary of Deputy Marshal
pass at \$3,600, and additional salary of
Deputy Marshal for January, February,
March and April, 1896, \$100.

"Third—Salary of Deputy Sheriff at
Hawaii at \$3,000.

"Fourth—Salary of Deputy Sheriff at
Maui, \$2,400.

"Fifth—Pay of police of Kauai at
\$15,000.

"Sixth—Pay of jailors, guards and
lunas of prisoners, \$55,000.

"Seventh—Pay of Secretary and sub-
agent of Land Commission, \$4,200.

"Eighth—Additional salary Secretary
and sub-agent Fifth Land District for
January, February, March and April,
1896, \$100.

"Ninth—Salary of first assistant clerk
\$4,200.

"Tenth—Strike out the item "Addi-
tional salary of first assistant clerk for
January, February, March and April,
1896, \$33.32.

"Eleventh—Salary of second assist-
ant clerk, \$3,000.

"Twelfth—Additional salary of sec-
ond assistant clerk for January, Feb-
ruary, March and April, 1896, \$100.

"Thirteenth—Salary of third assist-
ant clerk, \$2,400.

Highest of all in Leavening Power.—Latest U. S. Gov't Report

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