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WINES, LIQUORS, CIGARS.
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The First National Bank
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COTTAGE GROVE, ORE.
Paid up Capital, \$25,000.00
Money to loan on approved security.
Exchanges sold, available any place
in the United States
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HOLIDAY PHOTOS.
Come at once and have your holiday
photos taken in time to send to
friends for Christmas. Do not wait
till the last moment.
W. F. SHANAFELY,
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No investor can afford to be
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any one of its features is alone worth
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INVALUABLE FOR RHEUMATISM
I have been suffering for the past few
years with a severe attack of rheumatism
and found that Ballard's Snow
Liniment was the only thing that gave
me satisfaction and tended to alleviate
my pains. March 24th, 1902, John C.
Deegan, Kinsman, Ill., 25c, 50c and
\$1.00. New Era Drug Store.

Among The Daisies
**Stands for the best
that is made in
Footwear.**
AT ALL LEADING DEALERS.
C. GOTZIAN & CO.
MANUFACTURERS,
ST. PAUL.

Nothing has ever equalled it.
Nothing can ever surpass it.
**Dr. King's
New Discovery**
For Consumption, Croup, Whooping
Cough, Sore Throat, and
All Lung Troubles.
A Perfect Cure For All Throat and
Lung Troubles.
Money back if it fails. Trial Bottles Free.

ESTABLISHING A RANCH.
Furnishing Water is One of the Most
Difficult Problems.
In contemplating going into the ranching
business anywhere in the west
there are three essential points on
which success or failure largely de-
pends, and these are making sure first
of the grass, second water and third
some shelter. It is meant by this that
the land should have on it a good coating
of grass, that the water should be in
abundance and well distributed and
that for a breeding country especially
there should be shelter such as a broken
country affords and which a plains
country does not. As to the extent of
the ranch one might wish to acquire.
It depends entirely upon available capital.
Purchase of the ranch is preferable
to leasing, for it insures continuity,
the pleasure and profit in further
improvements and absolute security.
From ten to twenty acres are necessary
on which to graze an animal the year
round. It is perhaps safe to allow
twenty.

Now, as to water, there is a deficiency
in this, especially on the plains,
where it is to be provided. The furnishing
of water for stock has been one of
the most difficult questions a ranchman
has had to face. In the outset he
is trusted to natural resources, and, these
failing, he took to placing dams across
depressions on the surface of the
ground to catch the natural drainage.
These, again, being unsatisfactory on
account of the water becoming foul
and from losses in bogging, he took to
digging and boring wells, pumping the
water into cisterns as reservoirs. These
were largely superseded by the less
costly and far more efficacious dirt
tanks, from which the water is piped
into drinking troughs, thus insuring
the purest of water.

The ideal ranch is one with living
water upon it, supplied by never failing
springs, forming a constant flow
through the pasture, but such are few
and far between. Did any one ever
calculate the amount of travel imposed
upon a cow during her existence of,
say, ten years, in having to travel but
two miles a day for water? Well, it
means 7,000 miles or twice around the
continent; for 100 cows, 700,000 miles,
and for 1,000 cows it aggregates 7,000,000
miles. Just imagine it!

Even on four sections of land with
a well in the middle an animal would
have to travel two miles daily, and
allowing even fifteen acres to each animal
the well would only water 150
head, thus showing that the providing
of water is costly.
Yet it has to be done, and watering
places should not exceed a distance of
four miles apart even on the larger
ranches. Stockmen do not want to de-
velop legs and toughened muscles in
their animals. A cow in calf or with
her milk should be required to travel
a far. Besides, a multiplicity of
watering places obviates the necessity
of a long wait when cattle come in to-
gether.—Denver Field and Farm.

The Guessting Right.
"Did the spiritualistic medium tell
you anything that was true?" asked
the willing believer eagerly.
"Oh, yes," replied the hard headed in-
dividual.
"And that was?"
"That I spent my money foolishly,
which was right. You see, I had paid
to hear her tell me that."—Cincinnati
Times-Star.

ARIZONA HONEY.
An Acre of Alfalfa Produces Sixty
Pounds of Honey.
There are nearly 20,000 swarms of
bees kept in Arizona, which produced
during the last census year close to
1,000,000 pounds of honey and 13,000
pounds of wax, valued at \$7,000. The
sources of honey are the desert flora
and cultivated crops, chiefly alfalfa.
The mesquite and screw bean bloom
from April to July, the clover in May
and June, the acacia in July and alfalfa
from April to September.
The Arizona experiment station in
some tests finds that an acre of alfalfa
will produce sixty pounds of honey.
This figure corresponds roughly with
beekeeper's estimates of the yield of a
can of honey, sixty pounds in a ton of
hay. The quality of Arizona honey
varies with its source as well as with
its treatment and preparation for mar-
ket. The average moisture content is
16.85 per cent, which is about 2 per
cent lower than the average of eastern
honey. This is due to the fact that the
exceedingly dry air in this region evap-
orates the moisture and lowers its
water content, eastern honey usually aver-
aging about fifty pounds to a five gal-
lon can, Arizona honey sixty to sixty-
two pounds.

The selling qualities of Arizona
honey, such as consistency, color, flavor
and aroma, vary considerably with
source and treatment. Wild flower
honey, especially from mesquite and
sage, being generally regarded as the
best, being very white and of finest
flavor and aroma. These honeys solidify
very quickly when extracted from the
comb. The alfalfa honey of this region
is usually darker than wild flower
or alfalfa honey made in north-
western localities. Its flavor and aroma
are very good, and it solidifies less quickly
and completely after extraction than
wild honey.
Consumers, for conventional reasons,
usually prefer their honey in syrup
form, and in order to liquefy the solid
extracted article the five gallon cans
in which it is stored are, as a rule, placed
in boiling water, requiring several
hours to liquefy. This process darkens
and alters the flavor of the honey, ma-
terially injuring its quality.—Orange
Judd Farmer.

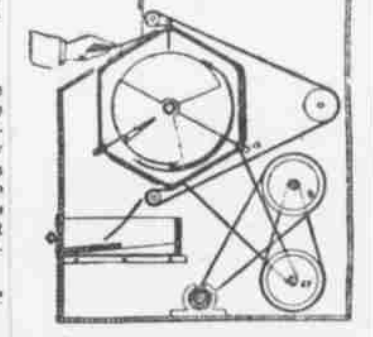
He Had a Daughter.
"You have a daughter, have you not,
sir?" said a minister to an old gentle-
man with whom he had formed a casual
acquaintance as a fellow passenger.
The old gentleman essayed to answer,
but the question had strangely affected
him.
"I beg your pardon," said the minis-
ter, "if I have thoughtlessly awakened
in your mind recollections of a painful
nature. The world is full of sorrow,
sir, and perhaps my question recalls to
your memory a fair, beautiful girl
whose blossoming young life had with-
ered in its bloom. Am I right, sir?"
"No, not exactly," replied the old gen-
tleman sadly. "I have five unmarried
daughters, minister, and the youngest of
the lot is twenty-eight years old."

A Timely Word.
Commenting upon the length of time
that some agricultural reports of the
New York state department are de-
layed in the printing, the Rural New
Yorker says: "These reports contain
valuable information and should be
printed and issued at once. Farmers
have respect for gray hairs, but do not
want them on their agricultural re-
ports."

OPERATION FOR ANEURISM.
Gold Wire Coiled in Aorta to Carry
Electric Current.
The life of Frank McIlhatton of
2107 North Bancroft street, Philadel-
phia, has been saved by an exceedingly
rare surgical operation, only nine
cases being recorded.
The man was suffering from an aneu-
rysm or dilation of the great artery
which extended three inches above the
base of the breastbone and was three
and a half inches wide. As a result of
this enlargement he had become unable
to swallow, had great difficulty in
breathing and suffered excruciating
pains in the head. To save his life it
was necessary to reduce the aneurism,
and to do that the hospital physicians
had recourse to what is known as
"Corrill's operation."
McIlhatton was able to talk to his
wife five minutes after the task of the
surgeon was completed and is reported
as doing well.

The operation was performed by
Professor E. W. Hutton, an surgeon in
chief at the McWhorter hospital, as-
sisted by Dr. Dietrich, Dr. Sively and
Dr. Pinck. Many men prominent in
the profession were spectators.
Cocaine was applied to the affected
portion of the aorta, the disease lying
in the transverse section, or arch,
of that artery.
A hollow porcelain covered medi-
cine was introduced into the aneurism, and
a section of gold wire fifteen feet long
was passed through the hollow of the
instrument and permitted to coil in the
dilated region. The wire was then
connected with a galvanic battery, and
the circuit was completed by the plac-
ing of a negative plate upon the pa-
tient's back, and a current of five mill
amperes was turned on. This was in-
creased at regular intervals until it
had attained a strength of eighty milli-
amperes and one hour's time had been
consumed.
McIlhatton experienced immediate
relief, and the operation from a sur-
gical standpoint was pronounced suc-
cessful. The application of the electrical
current caused coagulation of the con-
tents of the aneurism, which thereby
shrank, relieving the pressure upon the
lungs and larynx.

FOR THE PHOTOGRAPHER.
A Machine Which Makes Possible
Rapid Fire Printing.
For the amateur photographer and
the small gallery printing from the
negatives by the aid of the sun's rays on
a bright day may answer well enough,
but for the large gallery and the
commercial photographer, who must
turn out sometimes hundreds of
prints in a comparatively short space
of time, some more complete and inde-
pendent printing means must be pro-
vided. In the accompanying drawing
we show a machine which has recently
been designed for this class of work
and which, with the aid of the rapid



PHOTOGRAPHIC PRINTING MACHINE.
Printing papers now in common use
should enable a single operator to turn
out hundreds of prints in a working
day.
As will be seen, a small motor lo-
cated in the bottom of the machine
provides the power which runs the re-
volving drum, the motor being secured
down until the drum revolves at a com-
paratively slow speed. The faces of
the drum are formed to receive the
negatives, and in the interior a strong
light is placed, surrounded by an ad-
justable shutter, which can be timed
to give the required amount of light to
the plate for the necessary length of
time.
The sensitized paper is placed on the
drum as it revolves, being held in place
during a portion of the revolution by
the driving band of ribbon. After the
exposure has been made the paper
drops into a drawer beneath the drum,
the operation being kept up continu-
ously as long as necessary.

Edison's Commercial Photograph.
After years of experiment Thomas A.
Edison has perfected his commercial
photograph and made it practicable for
taking court testimony and other dicta-
tion. The record cylinder is nine inches
long and will take several "letters." It
can be shaved 175 times, making it as
cheap as letter paper. There is a mech-
anism controlled by the foot of the op-
erator which stops and starts the ma-
chine at the end of a phrase, sentence
or paragraph. It is said with a pair of
machines, one for recording, the other
for reproducing, one typewriter will be
able to do the work of eight under the
old system.
Where but one grain ration is fed
to the laying hens it should be wheat,
as wheat more nearly than any other
cereal is a balanced ration. It will
always pay to sell corn and buy wheat
for the hens.

McKibben Brothers
Saw Mill
Three miles east of
Cottage Grove on the
old Jackson Kile place
All Kinds
of Rough Lumber, at
reasonable prices.
If you are in need of any-
thing in our line call at mill or
address us at Cottage Grove.
WE'LL TREAT YOU RIGHT.
McKibben Bros.

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UNION PACIFIC
OREGON
SHORT LINE
AND UNION PACIFIC
Three Trains To The East Daily.

Through Pullman standard and tour-
ist sleeping cars daily to Omaha, Chi-
cago, Spokane; tourist sleeping cars
daily to Kansas City; through Pullman
tourist sleeping cars (personally con-
ducted) weekly to Chicago, Kansas City;
reclining chair cars (meats free) to the
East daily.

| 70 HOURS PORTLAND TO CHICAGO No change of cars. | | |
|---|---|-------------|
| DEPART FOR | TIME SCHEDULE | ARRIVE FROM |
| Chicago-Portland | Salt Lake, Denver, Ft. Worth, Omaha, Kansas City, St. Louis, Chicago and East. | 5:20 p.m. |
| Portland-Chicago | Salt Lake, Denver, Ft. Worth, Omaha, Kansas City, St. Louis, Chicago and East. | 9:00 a.m. |
| St. Paul | Wallis Wallis, Lewiston, Spokane, Wallace, Pullman, Minneapolis, St. Paul, Duluth, Milwaukee, Chicago & East. | 8:00 a.m. |

OCEAN AND RIVER SCHEDULE
For San Francisco—Every five days
at 8:00 p. m. For Astoria, way points
and North Bend—Daily (except Sunday)
at 8:00 p. m.; Saturday at 10:00 p. m.
Daily service (water permitting) on
Willamette and Van-Hill Rivers.
For fuller information ask or write
your nearest ticket agent, or
A. L. CRAIG,
General Passenger Agent,
The Oregon Railroad & Navigation
Co., Portland, Oregon.

ASK THE AGENT FOR
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GREAT NORTHERN
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—TO—
Spokane, St. Paul, Duluth, Minneapolis, Chicago,
AND ALL POINTS EAST.

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O. & S. E. R. R. CO.
Time Table No. 2
To Take Effect on Oct. 10th, 1903.

| No. 1 | Daily | No |
|------------|--------------------|------------|
| East Bound | Except Sunday. | West Bound |
| A. M. | STATIONS. | A. M. |
| 7:30 | Cottage Grove | 11:30 |
| 7:40 | Walden | 11:40 |
| 7:50 | Carro Jordan | 11:50 |
| 8:00 | Baker | 12:00 |
| 8:10 | Jorena | 12:10 |
| 8:20 | Bel Rock | 12:20 |
| 8:30 | Stewart | 12:30 |
| 8:40 | Rocky Point | 12:40 |
| 8:50 | Ar. Willamette Lv. | 12:50 |

Subject to change without notice.
All outward freight forwarded only, at the
joint risk of shipper and consignee.
Freight will not be received at the O. & S.
E. R. R. Depot after 5:00 p. m. To insure
forwarding on next train freight must be
delivered in ample time to permit of its
being loaded.
JOHN H. PEARSONS, General Manager
To Eliminate Seasickness.
The new sort of M. Force of the
French navy designed to pass through the
waves without roll or pitch is de-
scribed as a combination of submarine
and high platform. The submarine is
300 feet long, 75 feet wide and 12 feet
deep and is to contain boilers, engines
and steering gear, which will be sub-
merged to a depth of twelve feet.
From the submarine will rise vertically
two funnels, sixty-five feet apart, each
200 feet long and 10 feet wide.

NOTICE FOR PUBLICATION.
Land Office at Roseburg, Oregon,
January 5, 1904.
Notice is hereby given that the fol-
lowing named settler has filed notice
of his intention to make final proof
in support of his claim, and that
said proof will be made before J. J.
Wilton, U. S. Commissioner at Eu-
gene, Oregon, on March 15, 1904, viz:
David Kitson on his H. E. No. 1277
for the SE 1/4 NE 1/4, W 1/4 NE 1/4 & NE 1/4
SE 1/4 Sec. 9 T. 22 S., R. 4 E.
He names the following witnesses
to prove his continuous residence
upon and cultivation of said land,
viz:
James W. Holland, of Lowell, Lane
Co., Oregon; William A. Hill, of Hazel
Dell, Lane Co., Ore.; John T. Martin,
Alfred Walker, of Eugene, Lane Co.,
Ore.
J. T. BIRDSON, Register.

W. S. Chrisman & Ely Bangs
PROPRIETORS OF
The Fashion Stables
ALSO OFFICE OF THE
Bohemia and Black Butte Stage.
First Class Turnouts, Double or Single.
CHRISMAN & BANGS COTTAGE GROVE, ORE.

Cottage Grove Flour Mills.
Having purchased the warehouse formerly
owned by Messrs Elledge & Higgins, we wish
to announce that we will continue to carry a
large stock of all kinds of Feed there, which will
be sold at lowest prices.
By courteous treatment, square dealing we hope to
receive a large share of your patronage.
HAY AND FEED DELIVERED PROMPTLY.
Hartung & Hansen, props.
F. GAROUTTE, Manager.

Spring is here—So are we
With Spray Pumps and Spray Compound.
Hoes, Rakes and Cultivators.
Oliver's Steel and Chilled Plows.
Fish Bros. Wagons.
A full and complete line of Hardware, Stoves and Tinware.
Mining Supplies our Specialty.
Piper & Vandenburg

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Prospectus and
Cards.
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Force
The Ready-to-Serve Cereal
ready for
any emergency.
Farmers are Eating "Force."
"Thanks for 'Force,' I eat it three
times a day. Folks call me 'Sunny Jim.'
Took some to the country with me on a
visit and the farmers out there are
eating 'Force' now."—Will Rvvy.
W-7

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General Merchandise, Miners' Tools and Ammunition
BOHEMIA, OREGON.