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Begg to announce to his present and
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For Hatching
From our pens of R. C.
White Wyandottes. \$1.50
per setting of 15.
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MANY MEN HAVE TRIED TO USE THE FLOW OF THE TIDE

Plenty of plans have been made to
utilize the flow of the tides for gener-
ating power on a large scale, but all
have stopped short before they were
realized. The old-fashioned tide-mill
illustrates what can be done, but its
modern big brother has never yet ma-
terialized, although he has always
looked well on paper. His latest por-
trait is drawn in The Electrical Re-
view (London, February 21), in the
description of a proposed tidal power-
plant at Husum, on the Schleswig-
Holstein coast of the North Sea,
where, between the Isle of Nordstrand
and the mainland, a reservoir of 4000
acres is to be created by means of em-
bankments. This reservoir will be di-
vided into an upper and a lower tank,
communicating by sluices with the
shallow inland sea on one hand and the
turbine plant on the other. This is as-
serted by The Review to be "the first
serious attempt to use (the tides) for
the production of energy." It may be
remarked that the tides have plenty
of energy already; they do not have
to "produce" it; the only trouble is to
utilize it. How the German engineers
are planning to accomplish this is told
in the following words:

"The scheme is based on the as-
sumption of a uniform tidal amplitude
of ten feet, the lowest ebb and highest
flood each time reaching the same
level, and their difference of level al-
ways being ten feet. Under this as-
sumption the working of the plant will
be as follows: When the water in the
sea is higher than in the upper reser-
voir, this will be filled through the
sluices; if, on the other hand, the wa-
ter in the upper reservoir be at a
higher level, this will flow off through
the turbines, thus actuating the latter.
This would commence some time after
the beginning of low tide, and cease
shortly after the beginning of high tide.
An opposite process is to take place
in the lower tank; when the water in
the sea is higher than in the tank, it
will flow in through the turbines, thus
starting these some time after the be-
ginning of high tide, and "stopping
them some time after the beginning of
low tide. If the water in the sea be
lower than in the tank, water will flow
from the latter through the sluices into
the sea.

"The promoters of this scheme, on
the hypothesis of a regular return of
tidal amplitudes, presume that the op-
eration of the turbines from one of the
tanks may begin at the very moment
the operation from the other tank
ceases, thus ensuring a continuous
service; they are reckoning on a level
difference of five or six feet between
the sea and the tank actually in op-
eration, the water in both tanks rising
and falling about three feet during
each tide.

"The turbines are to yield 5000 horse-
power, driving dynamos which will
work without any accumulators, thus
communicating their output directly
to the supply system. The cost of con-
struction is estimated at \$1,250,000, of
which about \$875,000 is allowed for the
embankments and about \$125,000 each
for the turbines and sluices, the build-
ings and the electrical part of the plant.
The cost of the kilowatt hour, as pro-
duced in the tidal electricity works,
has been calculated in the first in-
stance at 2½ cents, but in the event of
a larger consumption it will be reduced
considerably (down to half a cent and
less). Even should the electrical en-
terprise fail, the promoters would in
any case recover the value of the land
reclaimed from the sea."

This plan, we are told, has not es-
caped criticism. In the Hamburger
Korrespondent it is asserted that the
fluctuations of tidal level are often un-
expected and abrupt; that the dyna-
mos would be at least two hours be-
tween periods of operation, instead of
working continuously; that enormous-
ly long transmission lines will be re-
quired to take the current to places
where it may be used; that the figures
for cost are at least doubtful; that the

machinery has not been well planned,
and finally, that the foundations are in
the mud and would cost a fortune.
Whether the projectors or the critics
are right, of course, time alone will tell,
but engineers would surely love to see
a tidal power-plant in operation, after
contemplating so many pictures of
abortive projects.—Literary Digest.

WATER WILL BEAR YOU UP

Always Remember This and Learning
to Swim Will Be Easy.

You can teach yourself to swim, and
you can do it in an hour or less. I
know plenty of people who have done
it by following carefully these direc-
tions:

First and foremost, fix this thought
clearly in your mind—the water will
bear you up. It is fear and struggle
that invariably send a person to the
bottom. The best way to acquire con-
fidence that makes for courage and fun
is, go squarely and reasonably at it.
Begin in still water; the old swimming
pool on the farm is just the place.
Wade out until your shoulders are cov-
ered, squat a little and get yourself
wet all over.

Don't be the least atom afraid, even
if a little water does get into your nose
and ears; wade out a little farther un-
til you are up to your chin, and now
your toes will begin to leave the bot-
tom of the pool. Do not be alarmed.
This shows you that you are a little
lighter than the water. Now lift your
chest and with the muscles of your
stomach breathe deep, stretch your
arms out to form the letter T of your-
self, stiffen your backbone and hollow
your back as though suddenly you
were a very important and dignified
person. Your toes have come up to
the surface now. Lean your head back
freely as far as you can, keeping your
mouth shut.

Lie back with absolute confidence
and there you are floating. Keep your
backbone stiff, gently paddle with your
hands, and you are swimming. Make
toward the shore, of course. Then
try it all over again. This time kick
with your feet gently; strong strokes
might turn you over and frighten you.
Keep your balance and practice two or
three times in straight succession.

The next thing that you will be
learning is the "V" stroke. Kick out
until both legs are like the letter V,
shut them together like the blades of a
pair of scissors (which give a strong
drive ahead), then draw them up side-
wise like a frog and kick persistently
out again. Then try making your legs
go as if you were climbing up stairs.
Always remember the water will bear
you up, and the great and only diffi-
culty about swimming will be out of
your way.—Christian Herald.

REFUSES TO PAY

Up in the Porcupine country in the
northern part of Ontario, a tax levy
of thirteen mills on the dollar was
made and the tax collector sent out
the usual notices to those liable for
taxes. The following letter was re-
ceived from a property holder named
Joe La France:

Mechanix Mines, Nov. 12, 1912.
C. O. Weston—

Dear Sir: I have received from you
to-day a letter which say I have to
pay \$8 for tax. I do not pay tax like
this. You say I have thirteen mill,
but there is only one mill at mine
where I work, and it is not ready to
run. Anyway I have got no dog, and
if I have I kill him soon I pay \$2. I
have no child to send to school and I
am insult for I am not a man marrie
yet.

I have tare up your bill and you can
go to h— before I pay for.
P. S.—What you do this money
what you got?

Mr. Bryan, U. S. Secretary of State,
has been at work for some time upon a
crystalization of his ideas for interna-
tional peace, and it is understood that he is
now prepared to recommend a series of
world wide treaties for the submission of
all disputes to arbitration and limitation
upon armaments.

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Sidney, B. C.

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