## Famous Fleury Plows

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Fleury Gang No. 27
May be had with wide, medium or
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TRACTOR PLOWING ADVANTAGES WITHOUT THE EXPENSE THE FLEURY GANG NO. 27 stands among Gang Plows where the
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"Rapid-Easy" Grain Grinders MOST WORK of BEST QUALITY with LEAST POWER

## For Any Power

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horzes: $6 \mathrm{in}, 7 \mathrm{in}, 8 \mathrm{in}, 10 \mathrm{in}$. for $21 / 2$ to 12
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J. FLEURY'S SONS, Aurora, Ontario, Canada


## Our School Department.

The Story of an Egg.
by PRof. W. R. Graham.
Every one is familiar, with the size and shape of an egg; but very few of us
stop to think how wonderfully it is made. stop to think how wonderfuly it is made
We all know that the contents of an eg are enclosed in a shell. This shell
appears, to be hard and solid, but this is appears, to be hard and solid, but this is
not the case. True, it has much strength; but we find upon examination that it is fuil of little holes. These small holes allow the air next to the shell to get into
the the egg. Thus it wilt be seen that we
should keep the egg in a clean place, away should keep the egg in a clean place, away
from dirty straw, such as we often see from dirty straw, such as we often see
in the nest, also away from strong smelling in the nest, also away from strong smelling
substances, such as onions, otherwise, substances, such as anions, oruerwise,
these strong odors, passing through the shell, will affect the taste of the egg, more or less.
Next to the shell, is a thin tissue. This tissue is made of two layers all over the BS, except at the large end, where they called the air-space. This air-space in creases in size as the egg eyaporates o dries. The longer the egg is allowed to
remain in the air the remain in the air, the more air will pass
through the shell; and each little particle through the shell; and each little particle
of air carries away with it some of the moisture of the egg and thus the contents dry up and the air-space increases in size. Sometimes eggs that have been
left exposed to the air in a nice clean place for a year are found to have very little content; and that which is left is dry and almost hard. These tissues may
be pulled off the shell, especially in the case of $a$ hard-boiled egg.
Now we come to the white of the eggs,
or what is called the albumen or what is called the albumen. This is
said by doctors to be a very good food but we are particularly interested in its appearance. So let us break an egg in a saucer. Notice that the white on the outside is thin and watery; in a little further, we see a grey or whitish streak or yellow portion, but does not touch it.
or or yellow portion, but does not touch it.
You will also notice that at each end of the yolk and extending from this whitish portion is a knotted portion, like a little piece of white string. We wonder what these are for, and observe that they
are simply an extended portion of this are simply an extended portion of this
first white streak as mentioned. Inside the white streak is another watery portion. This comes in touch with' the yolk We shall now look at the yolk. Take your finger, or a blunt pencil, and tr to turn it over, and you will notice that the covering of the yolk goes into all
sorts of wrinkles and folds., So we find sorts of wrinkes and folds. So we find
that the yolk is separated from the white by a thin layer of tissues or skin.
If you have been careful in the egg you will notice a little round spot at the top of the yolk. This spot
is about the size of is about the size of a pea, and is called
the germ spot; and it is from this the germ spot; and it is from this that the
chicken grows when heat and conditions are properly applied. egg, we will have one boifed fard of an we will tear. loose a small piece of the
white at the larger end of the by continuing to pull the torn postion
from the left towards the right notice that this white has a spiral ar as giving strength to generally considered We will next examine the yolk the yolk out, cut through the cent notice a small, flask-shaped portion will the yolk, which is soft and light in color,
and that the neck of the flack extend to the outer edge of the yolk. Upon this the germ rests. The hardened
portion of the yolk, you will notice is arranged in regular rings around this
flask. This flask-shaped than the rest of the yolk portion is lighter turn the egg, this spot will bo you upper surface.
Let us ponder for a iew minutes over egg content. The gerine found in the a nice soft cushion in the volle the upon covered with a thin skin, yodjoin, the yolk
yery thin thin tortion of the whiting

If a sudden jar occurs, the yolk, or
chiefy the germ, is protected by the
skin of the yolk. The thin white port acts as a pad or cushion, and the tion white portion holds it steady. Those extended cords of the thick the white act as the axis of lhe yolk holding it in position; and, as you yourn the egg around quickly, you twist the
cords similar to twisting cords similar to twisting a string, with the result, that, as soon as the egg is the germ spot on the upper surface aight No doubt by this time yourare wonder ing, if this germ- spot and the pondition
of the yolk under it at of the yolk under it are so light, why the yolk does not come right up against the has guarded against shell. But nature has guarded against this by the thick
layer of albumen, which always tends hold the yolk in position. Sometimes when the egg is left for
same position, the thick layer is the powered, and the yolk touches the w of the shell. If the yolk remains against the wall any length of time, it appears to become fastened to it, after which you can not successfully hatch a chicke position, the germ cannot move in of position, the germ cannot move properl the germ dies, You may say sitting on eggs never moves t
in this you are mistaken. Th
hen you set put a large pencil mark each of the eggs, and place the eggs under most Next day lif pencil marks upp see that she has altered the position the eggs. We have to imitate the hen in munni an incubator, in that we turn the eg
twice a day. But some one asks, wh is an incubator? Well, it is simply well-built box, heated by a lamp, and th heat evenly distributed pyer all par of the interior so as to give the egs
the same temperature. This hor is no exactly air-tight, for you know that if this little germ inside the egg is going to develop into a chicken at the enc twenty-one days, it must have air This air, you will remember, passes throug those little holes in the shell, the goo air going in, and the foul air coming of in much the samie manner as you breath Now, you will see we have this incubator germ with pure air. There is ano point we nearly overlooked that temperature,
If you will place a thermometer und a hen you will notice that it reads 10 degrees; so we try to run the incubator If any of you would like to see that germ-spot always stays next to surface, you can readily do so by tak a lamp after dark and going to a hen has been sitting four or five days a black cloth around the lamp chim but first make a hole in the cloth, $n$ the same shape as an egg, and have
hole exactly opposite the blaze of lamp. Put the lamp on a litt tamp. Put the lamp on a little
the hole facing you. Now very caref taking, great care not to turn it Place your finger at the ends of the and hold the egg in front of the 1 is around the chimney If the end fertile you will see a dark spot, and fion this a number of dittle spot, and runn in different directions. This is the ger and it has started to grow. Now th the egg slowly around, and you observe that the germ moves as you It is best to talke resting near the surfac It is best to take a white egg to see 1 as white eggs are clearer than brov
ones and the germ is more readily se through them. Should the egg appe clear, or no dark portion be seen, it infertile, and will not hatch.
A neat coop with a wire front w improve your poultry exhibit. It well also to have a small hinged doo examine them if he desires.

