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Examine Griffith's Giant at your dealer's. Look at the double stitching—the double leather or the metal buttons—the 1/2 inch hard-tens tape.

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Giant Halters**
(U.S. Pat. 1,111,111)

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G.L. GRIFFITH & Son
76 Waterloo St.
Stratford, Ont.

FARM CHATS

H. Percy Blanchard, Hants Co., N.S.

The Tetrahedron

FIRST of all, I would like to explain to the little boys and girls that this is not the name of a bug or germ; all the same, if they read right along they will find out how to make a kite. A tetrahedron in geometry is the name of a solid figure with the fewest possible plane sides, that is, four sides. Each side is a triangle.

I need a new cook-house. The insurance and the risk prevents me putting my boiler stove in the barn, so a separate building is required. I plan to build a "tetrahedron" kite, three joists, two by six inches, will be laid on the ground as a triangle and the corners fitted and joined. Then a strengthening joint will be put in from one corner to the centre of the opposite joist and the floor will be laid crosswise to the centre piece. Now we will take three more scantlings, a little longer than the joists, and erect them, one from each corner of the base, in shape of a tent. Fastening the tops very tightly, we will nail a few boards on the outside for braces. We will then put in one or two scantlings in the walls for more strength; planning for a door and a small window. The door, of course, must open outward. The walls will be boarded up to about a foot from the top and the tip-top sawed off square or flat, thus leaving an opening for the smoke pipe. The outside is covered with shingles or roofing paper and a zinc cap put on top as a finish for the pipe. The advantages of such a building are ease and cheapness of erection and a tall peak to allow for sufficient pipe to give draft and prevent smoking.

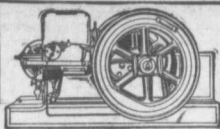
Probably the same building with the pipe closed up, and all made tight, could be used for smoking hams. The first building of this shape, I think, was built by Dr. A. Graham Bell at Baddeck, Nova Scotia. The tetrahedron is the nucleus of his famous man-lifting kites or flying machines. He reasoned that a flock of pigeons unkind would lift as much as a single eagle. Now I will tell the boys how he

Made His Best Kite.

He took six sticks of clean spruce, about eight inches long, and not as big as a lead pencil; but a larger size and length would be better for a boy's kite. Three were joined at their corners as a triangle, the other three erected on the triangle to form a three-sided pyramid. A piece of tissue paper was doubled and cut the shape of such a triangle but slightly larger. When opened out it formed a diamond. Wetting the tissue with flour paste he covered over two sides of the frame. This formed the kite. No tail was needed.

The string for such a kite is fastened to the stick covered by the crease in the tissue, which stick is loosermost when the kite is flying. The string is tied about a third of the way from the end of stick, but finding the exact balance point is a matter for experiment. This complete kite served nicely as a unit in Dr. Bell's structure. Imagine several thousands of these cells, each covered with a beautiful red silk, to form a structure sixty feet long and twenty broad and high. In the centre was the place for the engine and the aeronaut. It was at Baddeck that the first flying machine in Canada ever flew. (Brantford papers please copy.)

But irrespective of its use as a flying machine or a kite, Dr. Bell has shown the utility of the tetrahedron, not only for structural brace work, but for small outhouses as cook houses, well covers, and the like.



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