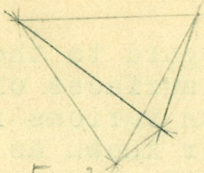

Fig. 1

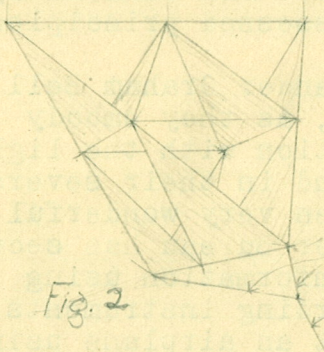

Fig. 2

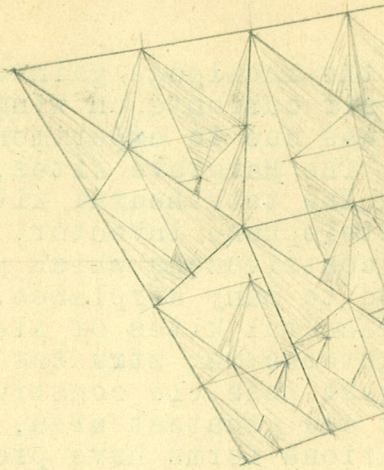

Fig. 3

In Fig. 1 is shown the frame work of one
This is made of six pieces of 1/8-inch rou
teen inches long. Dowels come three feet
sizes, ranging from 1/8 of an inch in dia
and are sold by most hardware stores. A s
cut with a knife around the dowels about
in from each end. Using strong linen thre
bind three of these pieces together to fo
wrapping the thread into the notches, so
without slipping off the ends. There will
quarter of an inch of the dowels projecti
so another cell can be readily fastened t
each of the corners of the triangle faste
the three remaining dowels and then final
ends of these last three together. The re
triangular-shaped frame having four sides
tetrahedral.

Paper can be used to cover the two slan
frame, but light-weight cloth or silk is
will give without tearing. It is glued or
side of the frame, turning the edges arou

For ordinary flying purposes a kite havi
as shown in Fig. 2, is all that is necess
you desire to make a larger kite, twelve
should be added, which will give the kite
of Fig. 3.

The bridle is attached to the front and
lower cells, as shown, and the kite strin
allow the kite to assume a slight backwar

Much of the knowledge gained in regar
action of air currents on wings and sur
airplanes was due to experiments with v
of kites. The Hargrave kites, better k
kites, and the tetrahedral kites of Ale
Bell, the telephone inventor, were all
efficient contrivances which possessed
now adapted to many airplanes.

The tetrahedral kites of Alexander Gr
are most interesting structures, as the
the strongest possible construction wit
est weight and greatest area, and in th
odd and curious forms have proven very
kites. The United States Weather Burea
a great deal of very valuable informati
these kites to carry their recording in
About 1908, Professor Bell built an air
several thousand of these cells which,
it may seem, flew very successfully.

I have made a number of these kites,
flown beautifully, and as they are very
seen nowadays, I am going to tell you h
are to make. The shape of the triangul
makes it possible to build a small kite
without remodeling or altering the kite
as many as you want--can be added for a

1/8 Doweling

12 Cells = 432 sq. in paper
288" of Frame = 648 gr.

16" Cells = 780 sq. in paper
384 in. of Frame (864 gr.