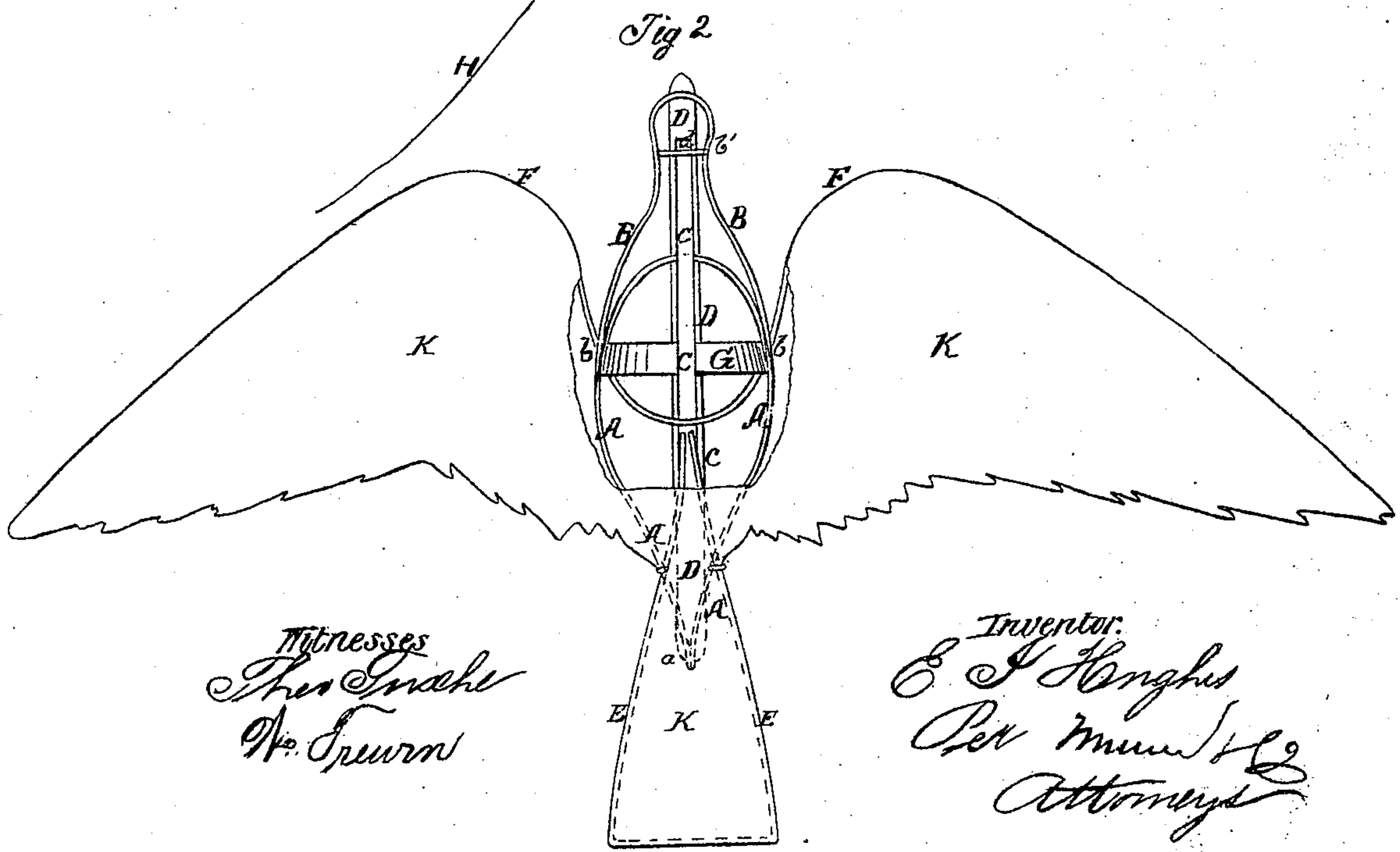
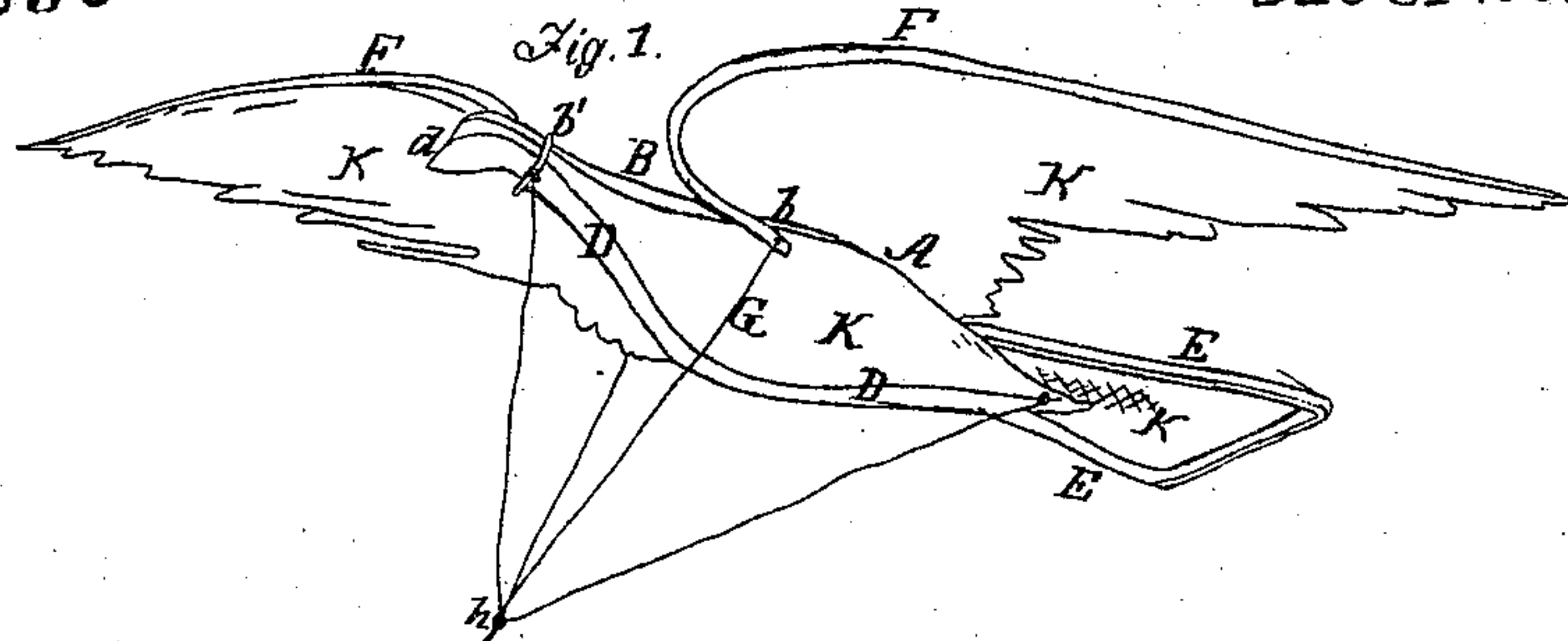


72855 *E.I. Hughes Kite.*

PATENTED  
DEC 31 1867



*Witnesses*  
*Thos. Grady*  
*Wm. Brown*

*Inventor.*  
*E. I. Hughes*  
*Per [Signature] & Co*  
*Attorneys*

# United States Patent Office.

EDWARD I. HUGHES, OF PITTSBURG, PENNSYLVANIA.

*Letters Patent No. 72,855, dated December 31, 1867.*

## IMPROVEMENT IN KITES.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, EDWARD I. HUGHES, of Pittsburg, in the county of Allegheny, and State of Pennsylvania, have invented a new and useful Improvement in Kites; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to an improvement in kites, and consists in making them in the form of birds, with a peculiar method of attachment and arrangement of parts. In the accompanying drawings—

Figure 1 represents my improved kite as it appears in flight, and

Figure 2 is a top view thereof, with the paper or silk skin removed from the frame of the body.

Similar letters of reference indicate corresponding parts.

A is a bar, of cane, steel, or other elastic material, bent round until the two ends meet at *a*, forming an ovate-lanceolate-shaped figure. The saddle B, also consisting of a bar, of cane, steel, or other suitable material, has each end secured to the shoulder of A at *b*. A ligature, *b'*, compresses the bow and forms a neck. A straight bar, C, proceeding from the head to the point *c*, serves as a backbone to the bird, while another curved bar, D, shaped at *d*, to represent the beak, may be likened to the sternum, but is prolonged to meet the backbone at *a*, and forms, with the backbone C and side bars A and B, the chest and abdominal cavities. The tail is formed of one bent or three several bars E E E, and is secured to the backbone C at *c*. The bars F F, also of cane, steel, or other elastic material, may be likened to the bones of the anterior limbs or wings of birds consolidated into one bone without articulations, and keep the wings extended as for flight. They are attached to the bars A and B at *b*. A bent bar, G, extending from *b* to *b*, keeps the sternum D stretched to its desired extent. A skin, K, of paper, oiled silk, or other appropriate substance, covers the whole framework. The strings G are attached at the points *a*, *b*, *b*, and *d*, and meet at *h*, where they are joined to the main string H. No other tail is required than an imitation of the natural tail of the bird in whose shape the kite is constructed.

I claim as new, and desire to secure by Letters Patent—

The kite-frame, constructed as described, consisting of the bent bar A, saddle B, curved operating-bar G, backbone C, beak and sternum D, tail-bars E and wing-bars F, all constructed and arranged as described, for the purpose specified.

EDWD. I. HUGHES.

Witnesses:

D. B. SUTTON,

Jos. R. HUGHES.