

T.S.BINKARD & R.H.BOAL.

Fan-Attachment to Tables.

116919

PATENTED JUL. 11 1871

Fig. 1.

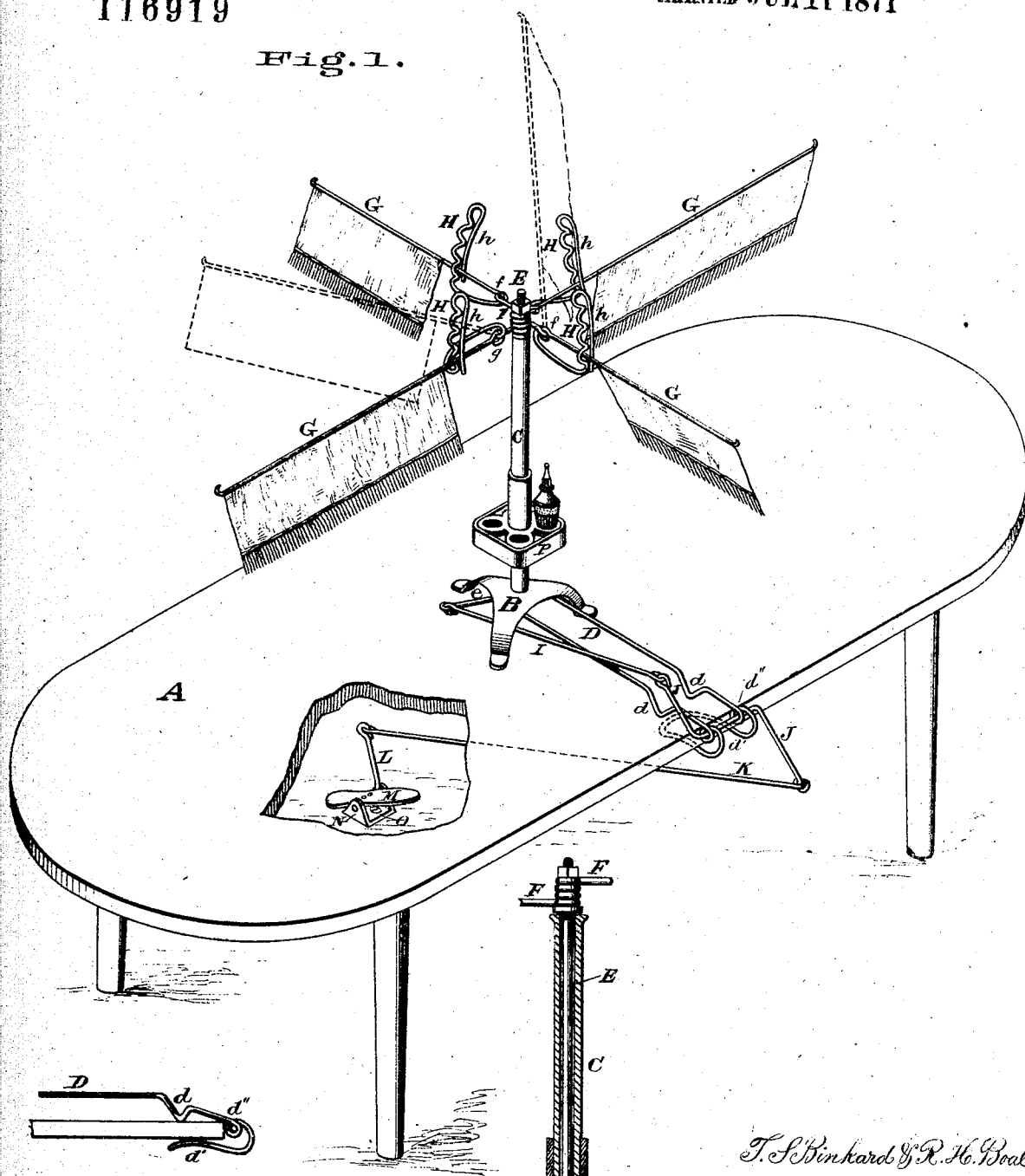
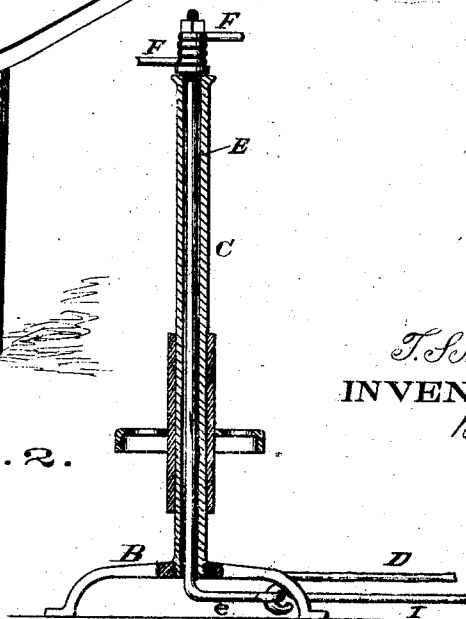


Fig. 2.



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INVENTORS.
By Knight Bros.
attys.

Attest.

Jas. H. Layman,

UNITED STATES PATENT OFFICE.

THOMAS S. BINKARD AND ROBERT H. BOAL, OF URBANA, OHIO.

IMPROVEMENT IN FAN ATTACHMENTS FOR TABLES.

Specification forming part of Letters Patent No. 116,919, dated July 11, 1871.

To all whom it may concern:

Be it known that we, THOMAS S. BINKARD and ROBERT H. BOAL, of Urbana, Champaign county, Ohio, have invented a new and useful Fan Attachment for Tables, &c., of which the following is a specification:

Our invention relates to a fly-fan or punka, adapted for attachment to a table, and operated by a treadle placed conveniently to one of the persons sitting at the table.

Figure 1 is a perspective view of our fan in position. Fig. 2 is a vertical section of the post or column to a larger scale.

A may represent a dining-table. B is a foot or tripod, from whose center rises a hollow post or column, C. The standard B C, thus formed, has firmly fastened to and projecting from it an elastic clamp, D, whose projections *d* and terminal lip *d'* tightly grasp without cutting or denting the table. The post C contains a shaft, E, from whose upper portion, above the standard, there project arms F, having eyes *f*, for the engagement of the hooks *g* at the inner ends of stems G of fans G *g*. The arms F terminate in racks H, guarded by spring-retaining fingers *h*, that securely hold the stems G in any one of the notches of their respective racks, thus permitting the fans to hang at any desired or convenient elevation or depression. The lower end of the shaft E has a crank, *e*, connected, by rod I, with a bell-crank, J, journaled in eyes *d''* of the clamp; and the opposite extremity of this bell-crank connects, by rod K, with an arm, L, that projects upward from treadle M, journaled in a pedestal,

N, that is secured to the floor by wood screw O, or other means. A cruet-stand, P, or other convenient appendage, may be applied to the standard B C.

The motion of the fan being vibratory, the vanes may be made of unequal length for use on an oblong table, as in the present illustration.

The standard being secured to the middle of the table by engaging the jaws of the elastic clamp over its edge, the fans proper or vanes are adjusted in their racks so as to hang higher or lower, as desired. A person sitting at the table then, resting his foot on the treadle, vibrates the fan with little or no effort, and with his arms and hands entirely at liberty.

We claim as new and of our invention—

1. The combination and arrangement of the standard B C, armed shaft E F, racks H, retaining-fingers *h*, and adjustable vanes G *g*, substantially as and for the purposes set forth.

2. The combination of the elastic clamp D *d d'* with the fan attachment, constructed and operating as specified.

3. The combination of the treadle M N, arms L J J, rods I, and clamp D *d d' d''* with the fan attachment, substantially as described.

In testimony of which invention we hereunto set our hands.

T. S. BINKARD.
R. H. BOAL.

Witnesses:

GEO. H. KNIGHT,
J. C. JONES.