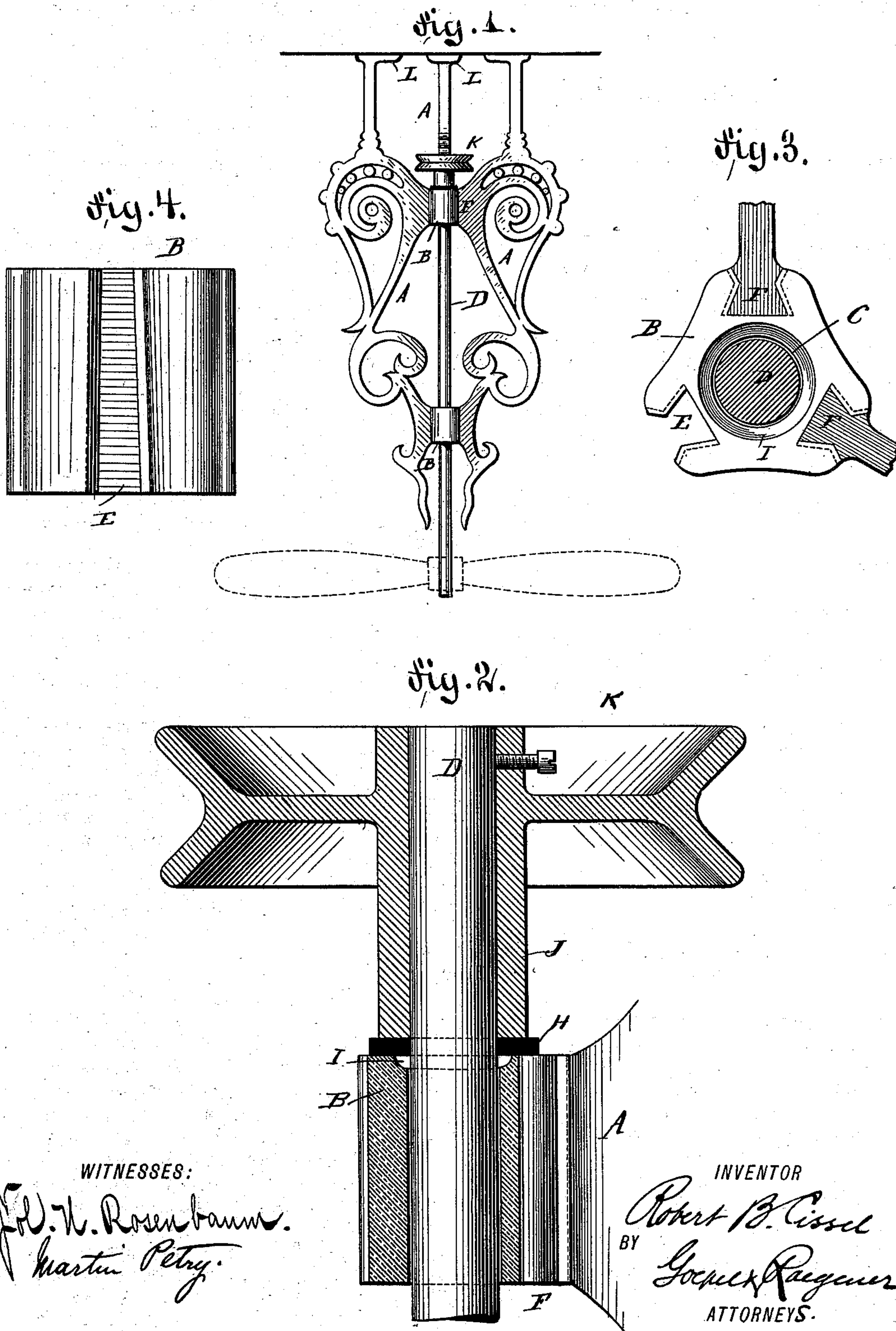


(No Model.)

R. B. CISSEL.
HANGER FOR ROTARY FAN SHAFTS.

No. 402,306.

Patented Apr. 30, 1889.



UNITED STATES PATENT OFFICE.

ROBERT B. CISSEL, OF ELIZABETH, ASSIGNOR TO THE BACKUS WATER MOTOR COMPANY, OF NEWARK, NEW JERSEY.

HANGER FOR ROTARY FAN-SHAFTS.

SPECIFICATION forming part of Letters Patent No. 402,306, dated April 30, 1889.

Application filed January 3, 1889. Serial No. 295,344. (No model.)

To all whom it may concern:

Be it known that I, ROBERT B. CISSEL, of Elizabeth, in the county of Union and State of New Jersey, a citizen of the United States, have invented certain new and useful Improvements in Hangers for Rotary Fan-Shafts, of which the following is a specification.

This invention relates to improvements in hangers in which the shafts for rotary fans are mounted; and the object of my invention is to provide a new and improved hanger which is simple in construction, which can be packed very compactly for storage or transportation, and easily and rapidly mounted and adjusted for use.

The invention consists of a hanger composed of hanger-sections provided with lugs, which hanger-sections are united by Babbitt-metal coupling-blocks having grooves for receiving the lugs on the frames and bores for the fan-shaft.

The invention also consists in the construction and combination of parts and details, as will be fully described and set forth hereinafter, and finally pointed out in the claims.

In the accompanying drawings, Figure 1 is a side view of my improved hanger in which the fan-shaft is mounted. Fig. 2 is an enlarged detail transverse sectional view of a coupling-block of the same and the shaft and pulley. Fig. 3 is a top view of the coupling-block, and Fig. 4 is a side view of the same.

Similar letters of reference indicate corresponding parts.

The hanger is composed of three or more hanger-sections, A, preferably made of cast metal, and which may be of any desired shape or ornamentation. Said hanger-sections are united by two or more coupling-blocks, B, made of Babbitt metal, which have a longitudinal central bore, C, through which the shaft D can pass. Said coupling-blocks are also provided with three dovetailed grooves, E, which are slightly tapered from the bottom toward the top of the block, said grooves being adapted to receive slightly-tapered dovetailed lugs F, of which two are formed on the inner edge of each hanger-section A—one for the top coupling-block and the other for the

bottom coupling-block. By passing the lugs F of the several hanger-sections A into their corresponding dovetailed grooves in the coupling-blocks B, the three hanger-sections are held together, and are drawn firmly toward the coupling-blocks as the grooves E and lugs F are tapered. At the top of the bore C of the upper coupling-block, B, an annular groove or recess, I, is formed for receiving the lubricating material. On the top of the upper block, B, a washer, H, rests, and upon the same the hub J of the pulley K rests, which pulley is locked in the shaft D by means of a binding-screw, key, or analogous device.

The hanger-sections A are provided at their upper ends with lugs L, through which screws or bolts can be passed for fastening the hangers to the ceiling or other support. The parts of the hanger can be connected or disconnected without requiring the use of any implements and in a very short time. As the hanger can be taken apart, it can be packed in a very small space, thus greatly facilitating storage and transportation. There is less danger of hangers being injured during transportation when packed very snugly in the manner described than when transported with the several parts united.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A hanger for rotary fan-shafts, consisting of hanger-sections having lugs and coupling-blocks provided with grooves for receiving said lugs and a central bore for the fan-shaft, which blocks are supported by said hanger-sections, substantially as set forth.

2. In a hanger for rotary fan-shafts, the combination, with the hanger-sections having tapering dovetailed lugs, of coupling-blocks having a central bore for the fan-shaft, and a tapering dovetailed socket for the lugs of the hanger-sections, which coupling-blocks are supported by the hanger-sections, substantially as set forth.

3. In a hanger for rotary fan-shafts, the combination, with hanger-sections having lugs, of coupling-blocks having grooves for receiving said lugs and bores for the fan-shaft, a washer resting on one of said coupling-

blocks, and a pulley secured on the fan-shaft and resting on said washer, substantially as set forth.

4. In a hanger for rotary fan-shafts, the
5 combination, with the hanger-frames, of Babbitt-metal coupling-blocks supported by and uniting said hanger-frames, which coupling-blocks have each a longitudinal bore, forming a bearing and guide for a rotary shaft,
10 substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

ROBERT B. CISSEL.

Witnesses:

PAUL GOEPEL,

JOHN A. STRALEY.