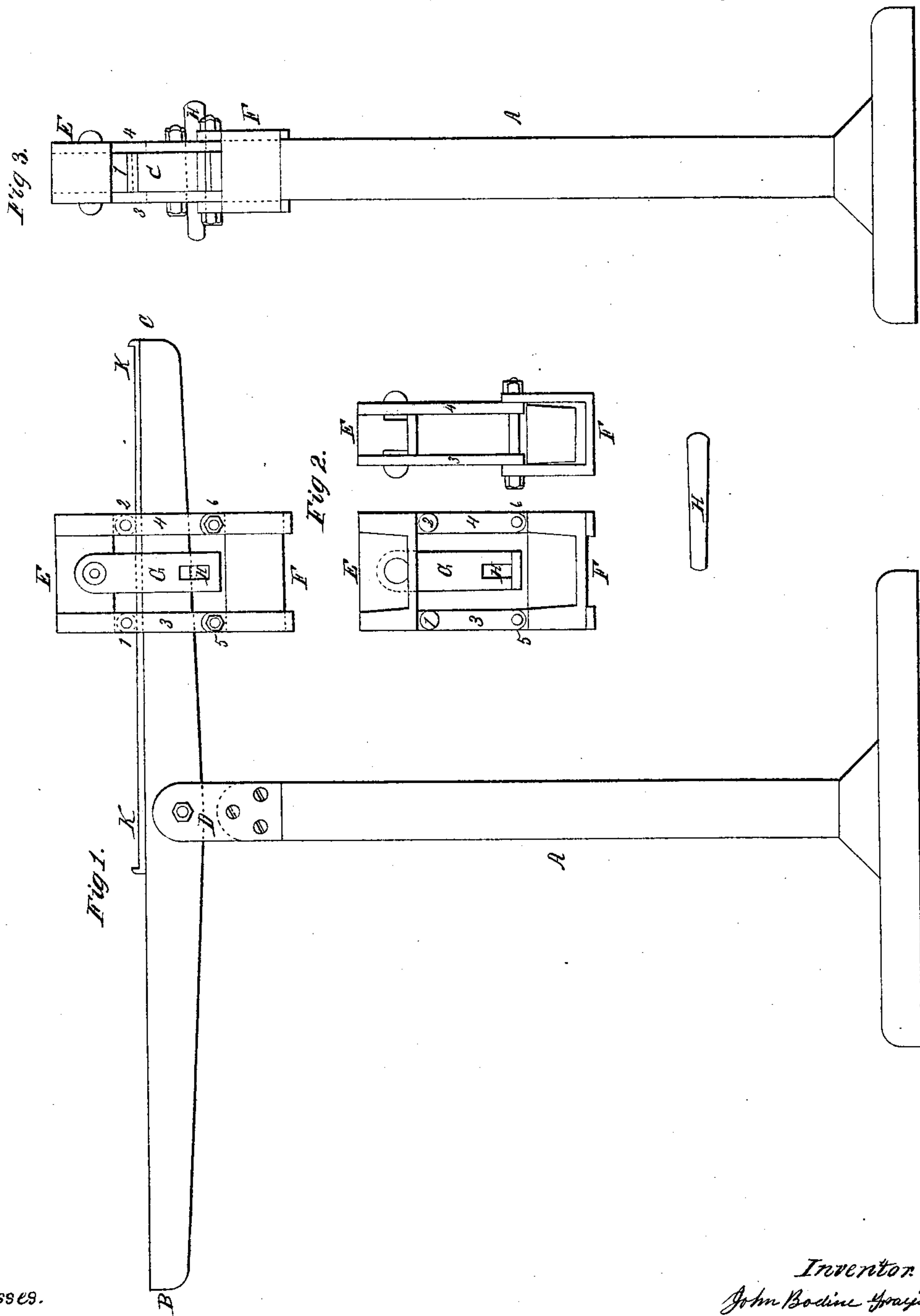


*Frazier & Nickes,*  
*Walking Beam for Well Drills.*  
*N<sup>o</sup> 53,434.      Patented Mar. 27, 1866.*



*Witnesses.*  
*A B Richmond*  
*John H. Kane*

*Inventor.*  
*John Bodine Frazier*  
*Samuel Nickes*

# UNITED STATES PATENT OFFICE.

JOHN BODINE FRAZIER AND HOMER WICKES, OF CONNEAUTVILLE, PA.

## IMPROVED BALANCE-BEAM FOR BORING OIL-WELLS.

Specification forming part of Letters Patent No. 53,434, dated March 27, 1866.

*To all whom it may concern:*

Be it known that we, JOHN BODINE FRAZIER and HOMER WICKES, of Conneautville, Crawford county, Pennsylvania, have invented a new and Improved Balance Walking-Beam for Boring Oil-Wells; and we do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings and letters of reference marked thereon.

Figure 1 represents our invention with all its parts adjusted in working order. A is the sampson post; B C the walking-beam, the drill being attached to the end B, and the engine to the end C, in the usual manner. E F is a sand or weight box resting on the iron bar K K on the end C of the walking-beam. This box is constructed in two parts, E and F, attached together by bars of wood or metal, as shown at Fig. 2, by 3 4. G is a strap of wood or metal bolted on the part E of the weight-box. In the lower part or end of this strap is a slot and key, H, to fasten the weight-box at any desired point on the walking-beam. 1 and 2 are rollers on which the weight-box E F hangs, rendering it easily moved or adjusted.

The lower part, F, of the weight-box is hung on the straps 3 4 by a bolt or bolts, 5 6 6 5, Fig. 2.

Fig. 3 is a sectional view of our invention, showing the key H, the roller 1, the straps 3 and 4, and the parts E and F of the weight-box.

Our machine works as follows; to wit: The drill is attached to the end B of the walking-beam, and the weight-box E F is filled with the desired amount of sand, and by the mechanical constructions heretofore described is moved and adjusted on the walking-beam so as to balance the drill. By this means great power is saved in operating the drill.

What we claim as our invention, and desire to secure by Letters Patent, is—

The weight-box E F, with the strap G, key H, and rollers 1 and 2, in combination with the beam B C, constructed as described, and for the purposes set forth.

JOHN BODINE FRAZIER.  
HOMER WICKES.

Witnesses:

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