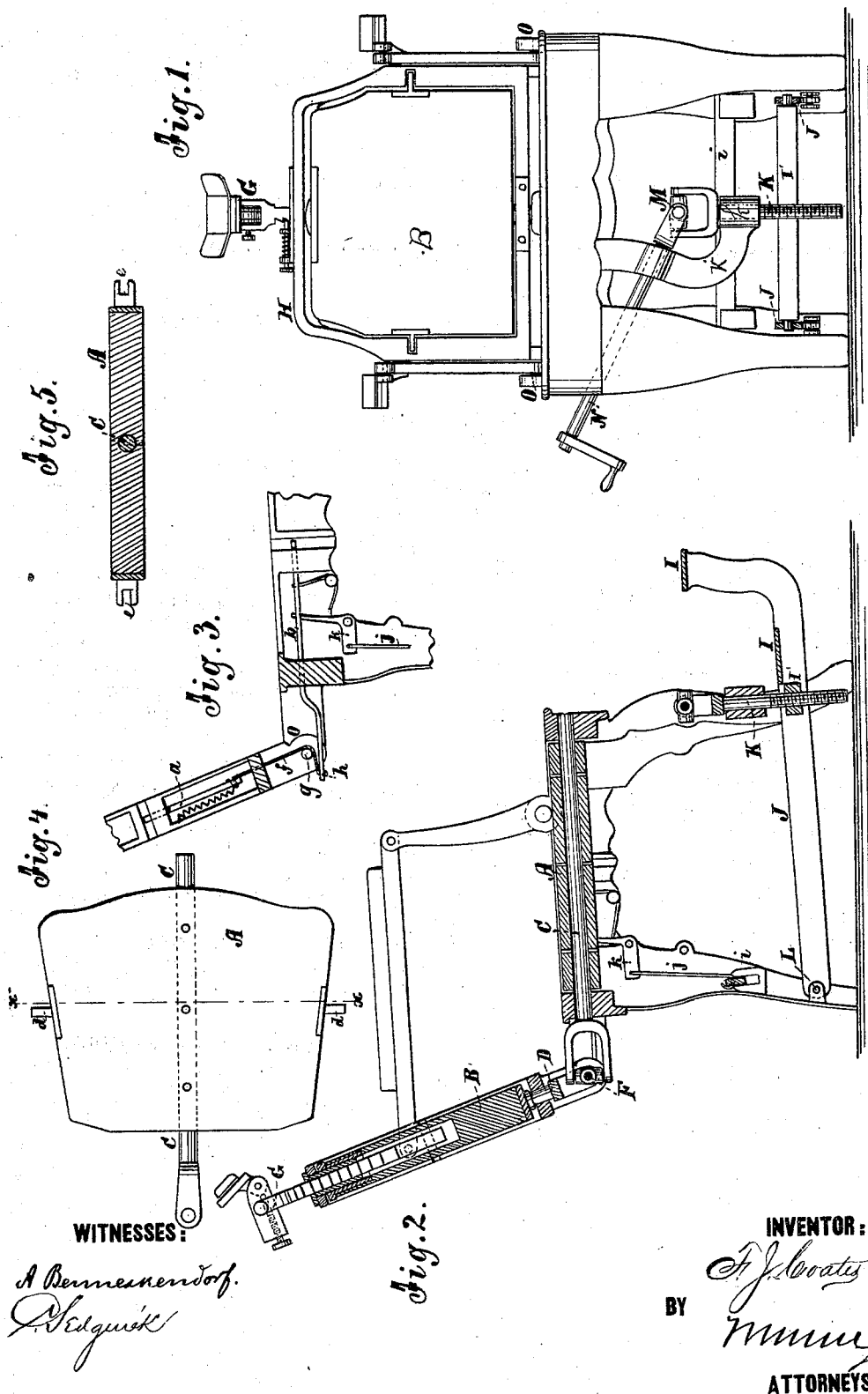


F. J. COATES.
Dentists' and Barbers' Chairs.

No. 149,919.

Patented April 21, 1874.



UNITED STATES PATENT OFFICE.

FRANCIS J. COATES, OF CINCINNATI, OHIO.

IMPROVEMENT IN DENTISTS' OR BARBERS' CHAIRS.

Specification forming part of Letters Patent No. **149,919**, dated April 21, 1874; application filed February 21, 1874.

To all whom it may concern:

Be it known that I, FRANCIS J. COATES, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and Improved Dentist's and Barber's Chair, of which the following is a specification:

The invention will first be fully described and then pointed out in the claims.

Figure 1 is a front elevation of my improved chair. Fig. 2 is a sectional elevation through the middle of the seat and back. Fig. 3 is a detailed section of the seat and back. Fig. 4 is a plan of the seat; and Fig. 5 is a section of the seat on the line *x x*.

Similar letters of reference indicate corresponding parts.

A represents the reversible portion of the seat, and B the reversible portion of the back. C is a shaft or rod, on which seat A is pivoted. D is the lower pivot of the back, and F the universal joint, by which they are coupled together, so that the seat may be turned simultaneously with the back, and by it, the back being turned by hand, applied directly to it. The back B is fastened by a spring-bolt, *a*, and the seat by a spring-bolt, *b*, which engage the notched projections *d* and *e*, respectively. Bolt *a* is connected, by a cord, *f*, with bolt *b* passing over a pulley *g*, so that both can be pulled back by pulling on the projecting part *h* of bolt *g*. A foot-bar, *i*, is connected, by rod *j* and bell-crank *k*, with bolt

b, to actuate it in large chairs. I is the foot-rest, which is supported on long arms J, held at the front by an adjusting-screw, K, working through a nut in cross-bar L, held in the socket *k* of bracket K'', and pivoted to the legs of the chairs at L. This adjusting-screw is connected, by a universal joint, M, with the crank-shaft N, which extends out through the chair at or about the right-hand rear corner, where it is most convenient for the attendant to reach it, from his position behind the chair, to operate it. O represents the jointed projections of the back and seat, forming a hinge in the axis of the universal joint F, for reclining the back.

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

1. The combination, with pivoted seat and back, having projections *d e*, of the bolt *b h*, and spring-bolt *a*, connected by a cord, *f*, passing over a pulley, *g*, as and for the purpose described.

2. The combination, with connected seat-bolt *b*, and spring-bolt *a*, of the lever *k*, rod *j*, and foot-bar *i*, as and for the purpose specified.

FRANCIS J. COATES.

Witnesses:

J. E. CANNANY,
WM. J. ELLIOTT.