

No. 720,672.

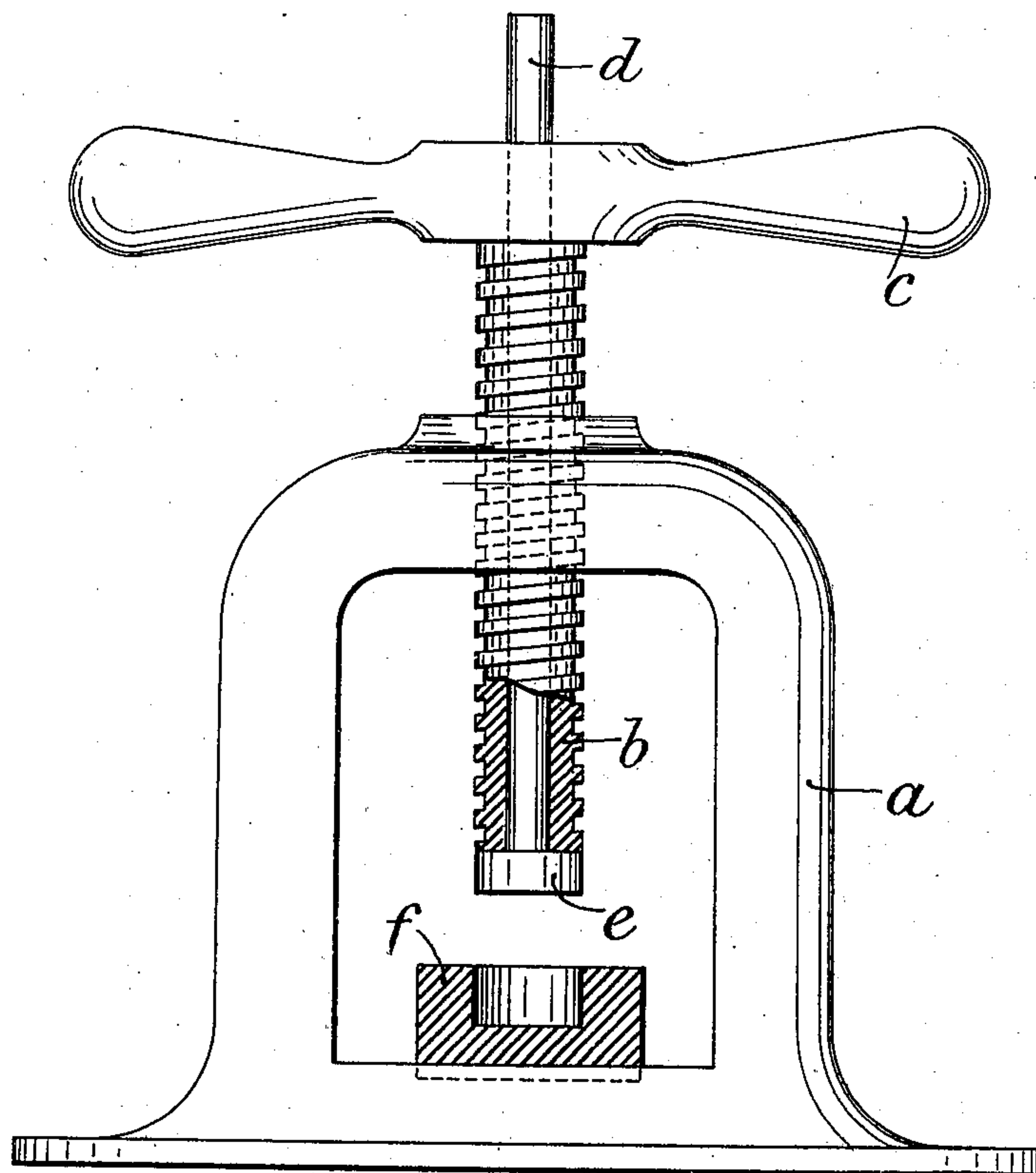
PATENTED FEB. 17, 1903.

E. G. CHRISTIANSEN.

PRESS.

APPLICATION FILED MAR. 17, 1902.

NO MODEL.



Witnesses

Bohen

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UNITED STATES PATENT OFFICE.

EDUARD GREYSEL CHRISTIANSEN, OF DRAMMEN, NORWAY.

PRESS.

SPECIFICATION forming part of Letters Patent No. 720,672, dated February 17, 1903.

Application filed March 17, 1902. Serial No. 98,654. (No model.)

To all whom it may concern:

Be it known that I, EDUARD GREYSEL CHRISTIANSEN, dentist, a citizen of the Kingdom of Norway, residing at the city of Drammen, Norway, have invented certain new and useful Improvements in Presses of all Kinds; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to letters of reference marked thereon, which forms a part of this specification.

My invention relates to presses of all kinds, and has for its object to provide a press by means of which an exceedingly high pressure may be obtained without other gear than that ordinarily used in presses of the usual kind.

A press constructed in accordance with my invention is especially adapted for use in dentistry, but may also be employed in all cases in which matrices or the like have to subject a material to a relatively high pressure.

The invention is illustrated in the accompanying drawing, in which I have shown in sectional elevation a press constructed according to my invention.

a is a frame or stand in which is arranged in the usual manner a screw *b*, adapted to be screwed up and down by means of the handle or lever *c*. The screw *b* has a hole bored centrally through it, the said hole receiving a shank *d*. This latter may be provided at its lower end with a die *e*, which bears against the lower end of the screw *b*, and in this position the upper end of the shank *d* projects beyond the upper end of the screw, as clearly shown. The head *e* fits in a matrix *f*, supported by the frame.

The operation of the press is as follows: The material which has to be pressed is in-

troduced into the matrix *f*, and the screw *b* is screwed down as far as possible by means of the handles *c*, whereby the die *e* will compress the material in the matrix *f*. In order now to obtain an increased pressure, the upper end of the shank *d* is given a blow by a hammer or the like, and if at the same moment the screw is rotated by means of the handles *c* the screw at every blow of the hammer upon the shank will be forced farther down, and by this simultaneous employment of hammering and screwing a high pressure is obtained. The screw may be raised in a similar manner, except that it is rotated in the opposite direction while the blows are given to the shank.

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

1. A press comprising a frame having a base-plate, a screw in said frame movable to and from the base-plate, a die adapted to be carried to the base by said screw, and a freely-movable non-rotatable shank extending from the die through and beyond the upper end of said screw adapted to exert pressure on the die, for the purpose specified.

2. A press comprising a frame having a base-plate, a matrix mounted on the base, a die adapted to take into said matrix, a longitudinally-bored screw adjustable in the frame adapted to press the die on the bottom of said matrix, and a shank mounted in said screw and extending from the die through and beyond the upper end thereof and adapted to press the die independently of the screw, for the purpose set forth.

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

EDUARD GREYSEL CHRISTIANSEN.

Witnesses:

HENRY BORDEWICH,
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