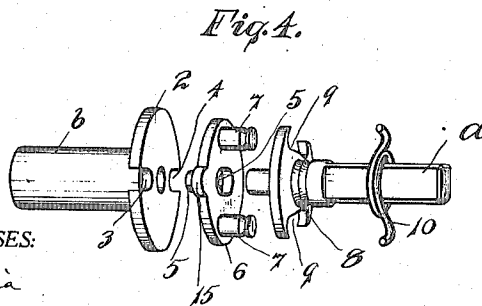
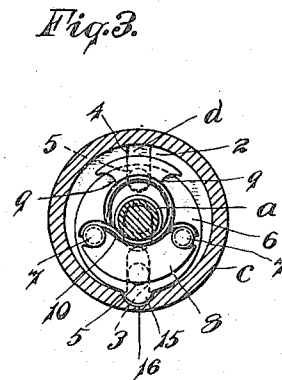
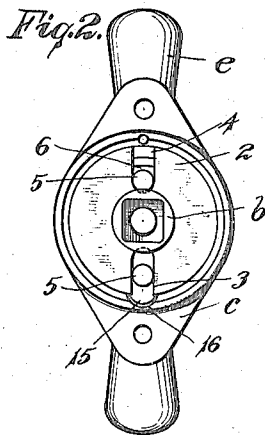
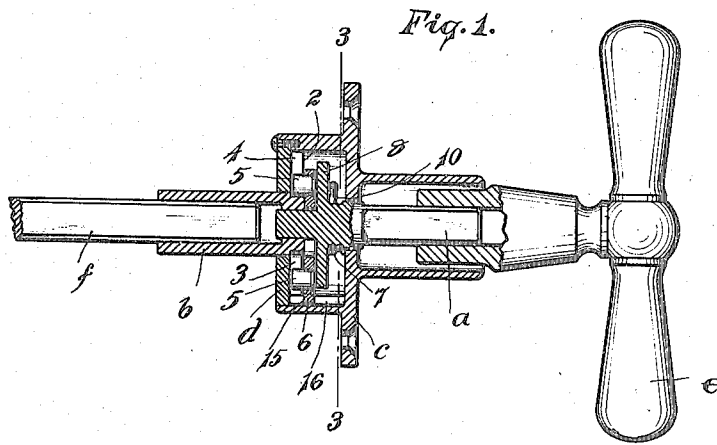


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SHAFT OPERATOR.
APPLICATION FILED DEC. 4, 1913.

1,135,731.

Patented Apr. 13, 1915.



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SHAFT-OPERATOR.

1,135,731.

Specification of Letters Patent.

Patented Apr. 13, 1915.

Application filed December 4, 1913. Serial No. 304,701

To all whom it may concern:

Be it known that I, LOUIS B. SMYSER, a citizen of the United States, and a resident of New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Shaft-Operators, of which the following is a specification.

The object of this invention is to produce an operating mechanism for a shaft in which there is provided means for locking the shaft in certain positions, the actuator releasing the locking mechanism.

An embodiment of the invention is illustrated in the drawings, in which—

Figure 1 is a longitudinal central section of the invention. Fig. 2 is a view looking from the left of Fig. 1. Fig. 3 is a sectional view on the line 3—3 of Fig. 1. Fig. 4 is a view of the operating parts detached.

Referring to the drawings, *a* denotes what may be termed the driving shaft, and *b* the driven shaft. These two parts as shown are arranged in axial alinement.

c is a housing which is adapted to be secured in place in or against a casing or something of that sort, and within this housing there is located a driving mechanism which connects the driving and driven shafts and transmits the motion of one to the other, the housing being closed by a cap *d*.

e is an operating handle for the driving shaft *a*. The driven shaft *b* can be socketed or otherwise provided with means for attachment to a spindle *f*.

2 is a disk at the end of the driven shaft *b*, having opposite radial slots 3, 4, within which fit pins 5, 5, carried by a connector 6 having projecting from its opposite face a pair of studs 7, 7, which lie in slots 9, 9, in the edge of the plate 8 secured to the shaft *a*. Projecting from the edge of the connector 6 is a lug 15 adapted to enter a groove 16 in the wall of the housing *c* to lock the connector, and consequently the shafts *a* and

b, against movement. A spring 10 wrapped around the shaft *a* has hooked ends lying back of the studs 7, 7, forcing the connector laterally so as to hold the lug 15 in the slot 16. The housing *c* and the cap *d* provide bearings for the shafts *a* and *b*, and the shaft *a* is conveniently squared or given other regular form in order that the operating handle *e* can be fitted to it.

Upon the rotation of the handle and the shaft *a* one end of the slot 9 in the plate 8 will engage one of the studs 7 and move the connector 6 laterally to withdraw the lug 15 from the groove 16 in the housing, and the driven shaft *b* can then be turned until the lug 15 comes into registering position with the groove 16, when the spring 10 will move the connector 6 and position the lug in the groove.

I claim as my invention:—

In a device of the character described, a housing, a driving member having a bearing support in a wall thereof, a cap plate for said housing, a driven member arranged in axial alinement with said driving member and having a bearing support in said cap plate, a connector located between the ends of said driving and driven members within said housing, diametrically opposite pins projecting from one face of said connector and adapted to fit and move in radial slots in the end of said driven member, diametrically opposite studs projecting from the other face of said connector fitting within slots on said driving member, said connector being movable laterally within said housing, a locking recess in the wall of the housing, a cooperating locking lug projecting from the edge of said connector, and a spring engaging said studs to move or hold said connector in locking position.

LOUIS B. SMYSER.

Witnesses:

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