

No. 868,086.

PATENTED OCT. 15, 1907.

B. M. W. HANSON & J. H. MONTSTREAM.

ADJUSTABLE CAM.

APPLICATION FILED FEB. 28, 1906.

Fig. 1.

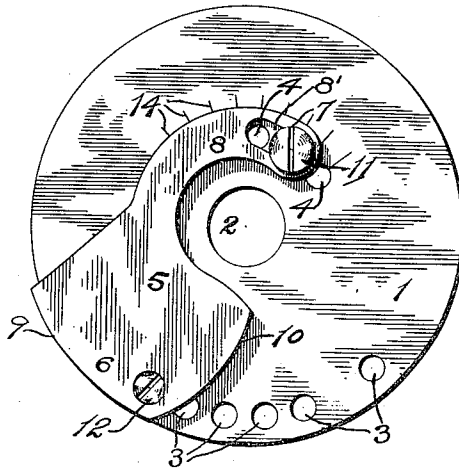


Fig. 2.

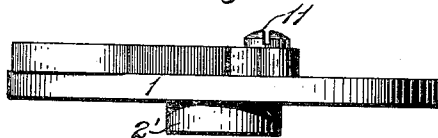
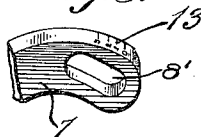


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

BENGT M. W. HANSON AND JOHN H. MONTSTREAM, OF HARTFORD, CONNECTICUT, ASSIGNORS
TO PRATT & WHITNEY COMPANY, OF HARTFORD, CONNECTICUT, A CORPORATION OF
NEW JERSEY.

ADJUSTABLE CAM.

No. 868,086.

Specification of Letters Patent.

Patented Oct. 15, 1907.

Application filed February 28, 1906. Serial No. 303,557.

To all whom it may concern:

Be it known that we, BENGT M. W. HANSON and JOHN H. MONTSTREAM, citizens of Sweden and of the United States, respectively, residing at Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Adjustable Cams, of which the following is a specification.

This invention relates to a new and useful improvement in cams, and has for its object the production of a cam the operative face of which may be readily and quickly adapted for various throws and the positions of said face may be changed without removing the cam from place.

In the accompanying drawings: Figure 1 represents a plan or full view of the device. Fig. 2 an edge view; and Fig. 3, a detail perspective view.

Like numerals designate similar parts throughout the several views.

The numeral 1 designates the supporting piece, in the present instance shown as a disk provided with a central hole 2 and a perforated hub 2' to receive a shaft. This disk 1 is provided with two sets of concentric threaded holes, 3 and 4, consisting, respectively, or several holes. One set of holes 3 is located near the periphery of the disk 1, and the other set of holes 4 near the central hole 2. There may be any desired number of holes in each set. Secured to this supporting piece 1 is the cam-faced piece 5. This piece 5 has the main part 6 and tongue 7, connected by the neck 8, the neck and tongue being curved so as to inclose the hole 2. The tongue 7 is provided with a slot or elongated opening 8', and the main part 6 has a cam-face 9 and curved edges 10. In the slot 8' of the piece 5 is placed a binding screw 11, threaded so as to engage any of the holes 4 and a holding screw 12 is secured at the outer edge and at one corner of the piece 5 and is adapted to be inserted in any of the holes 3. The tongue 7 may be provided with a scale 13, and the

disk 1 with a number of lines or marks 14 located over the holes 4.

The parts are secured together as shown in Fig. 1, the binding screw 11 passing through the slot 8' and engaging one of the holes 4 and the holding screw 12 engaging one of the holes 3. This forms a cam with an edge 10 and cam-face 12 ready for operation. Should it be desired to change the throw of the cam the binding-screw 7 is loosened, removed to another hole 4 and tightened up. If change of position is desired the holding-screw 12 is loosened and placed in another hole 3, and the binding-screw 7 adjusted to fit. With these two adjustments this one device may be varied at will to provide cams of different throws or of different positions.

Changes may be made in the form and proportions of the parts, the invention not being limited to the precise devices shown and described.

Having thus described our invention, what we claim is:—

1. The combination, with a disk having sets of concentric holes, of a piece having a slotted tongue and a cam-face; a binder passing through the slot of the tongue, and adapted to enter any hole of one series; and a second binder passing through said piece, and adapted to enter any hole of the other series.

2. The combination, with a disk having a series of concentrically-disposed holes at one point thereof; and a second series of concentrically-disposed holes at another point thereof; of a cam-proper having a curved and slotted tongue; a screw entering the cam-proper and threaded into a hole of one series; and a second screw passing through the slotted tongue, and threaded into the hole of the other series.

In testimony whereof we affix our signatures in presence of two witnesses at Hartford, Conn., Feb. 14, 1906.

BENGT M. W. HANSON.
JOHN H. MONTSTREAM.

Witnesses:

J. W. JOHNSON,
JAS. H. LUCAS.