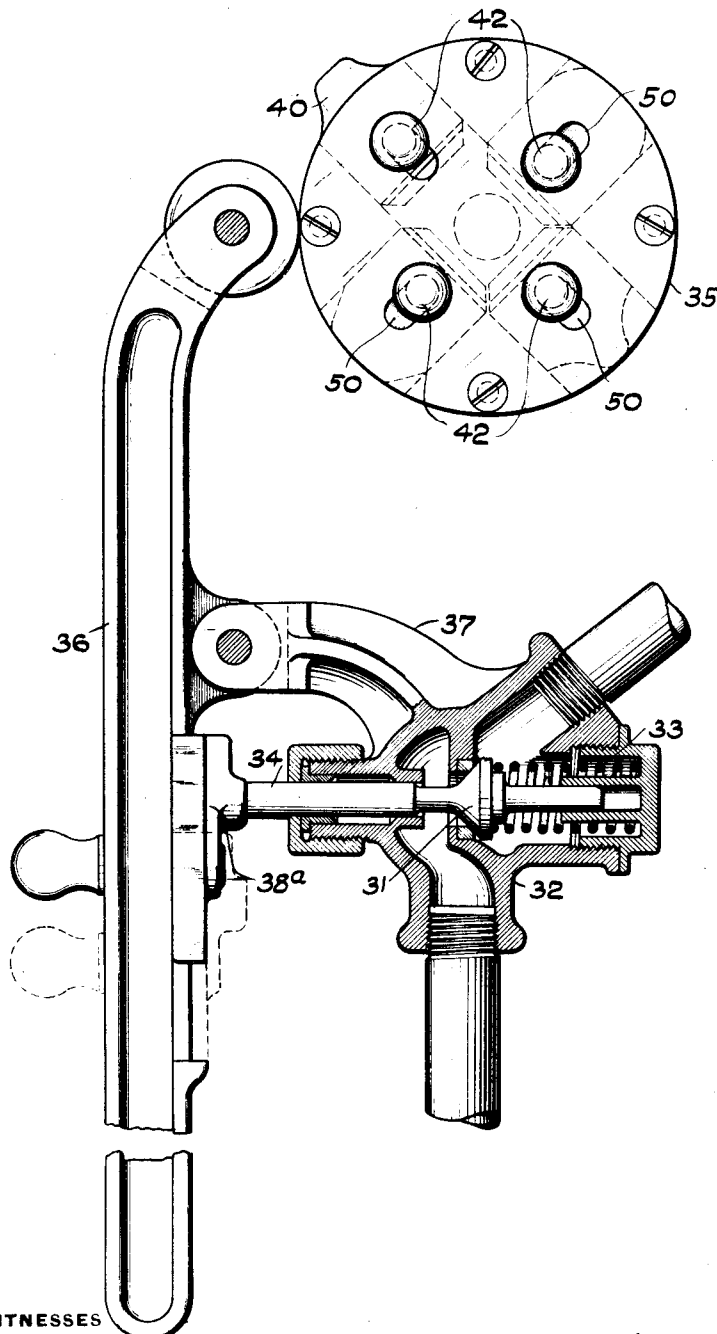


C. F. STREET.
CONTROLLER CAM DEVICE.
APPLICATION FILED AUG. 16, 1911.

1,141,503.

Patented June 1, 1915.



WITNESSES

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Att'y.

UNITED STATES PATENT OFFICE.

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STOKER COMPANY, OF WILMERDING, PENNSYLVANIA, A CORPORATION OF PENN-
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CONTROLLER-CAM DEVICE.

1,141,503.

Specification of Letters Patent.

Patented June 1, 1915.

Application filed August 16, 1911. Serial No. 644,476.

To all whom it may concern:

Be it known that I, CLEMENT F. STREET, a citizen of the United States, residing at Schenectady, in the county of Schenectady and State of New York, have invented new and usual Improvements in Controller-Cam Devices, of which the following is a specification.

This invention relates to means for supplying fluid pressure intermittently or periodically for any suitable purpose where it is desired to utilize the fluid under pressure in a series of blasts of greater or less frequency and duration, and has for its object to provide an improved lever device for controlling the intensity of the blast or for cutting off the same altogether.

While my improvement is adapted for a variety of uses, it is particularly designed to be employed in connection with a mechanical stoker for forcing the fuel into the firebox, as shown and described in my prior pending application Ser. No. 565,579, filed June 7, 1910. In this prior construction, the admission of fluid under pressure to the fuel distributor nozzles is controlled by a valve operated by a pivoted lever one end of which carries a roller bearing upon the periphery of a cam disk upon which the cam members are pivoted and adapted to be turned to different positions to extend the different cam surfaces beyond the periphery of the disk to engage the roller and actuate the valve.

According to my present improvement, the connection between the valve lever and valve may have adjustable means for varying the extent of opening of the valve, and the intensity of the blast, or for disconnecting the same altogether when it is desired to throw the device out of operation.

In the accompanying drawing, the figure is a front elevation of my improved device, the valve being shown in section.

As set forth in my prior application, the valve for controlling the supply or flow of the fluid under pressure comprises a casing, 32, containing a valve proper, 31, with stem, 34, and a spring, 33, normally holding the valve closed on its seat, the casing having a bracket arm, 37, to which is pivoted the lever 36 adapted to operate the valve stem and at the other end carrying a roller which bears against the cam disk.

As shown in the drawing, a cam disk, 35, provided with a plurality of adjustable cam members, 40, having handles, 42, movable in slots, 50, is employed for imparting movement to the lever, but any other suitable means for oscillating said lever may be used, if preferred.

When the cams are adjusted to give any desired flow of fluid the device may be cut out of operation at any instant, if necessary, by merely sliding the movable latch, 38, on the lever, 36, from an operative position, as shown, in which it engages the valve stem, 34, to its inoperative position, as indicated in dotted lines. The valve then remains closed although the cams may continue to actuate the lever. This avoids the necessity of disturbing the adjustment of the cams, when for any reason it is desired to temporarily cut the device out of operation.

The latch may also be provided with stops of different lengths adapted to effect different degrees of opening of the valve, as indicated in the figure, whereby the intensity of the fluid blasts for any given adjustment of cams may be readily varied, as desired, by merely shifting the latch to one or another of its different operative positions in which one or another of the stops is adapted to engage the valve stem. Any suitable or preferred spring stop device may be employed for retaining the latch in its different positions upon the lever.

The particular construction of controller cam shown and described, is not claimed herein, since the same forms the subject matter of my divisional application, Ser. No. 794,015, filed October 8, 1913.

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

1. In a controller cam device, the combination with a valve for controlling the supply of fluid pressure and a lever for actuating the same, of a cam disk having cam members for operating said lever, and an adjustable latch mounted on the lever for engaging or disengaging the valve connection.

2. In a controller cam device, the combination with a valve for controlling the flow of fluid, a lever for actuating the same, and a continuously operating cam for actuating

said lever, of a manually adjustable means for temporarily disengaging the connection between said lever and the valve.

3. In a controller cam device, the combination with a valve for controlling the flow of fluid, a lever for actuating the same, and a continuously operating cam for actuating said lever, of manually operated means for adjusting the connection between the lever and valve for varying the intensity of the fluid blasts.

4. In a controller cam device, the combination with a valve for controlling the flow of fluid, a lever for actuating the same, and a continuously operating cam for actuating said lever, of a latch device between said lever and valve for adjusting the extent of valve opening or for disengaging the connection.

5. In a controller cam device, the combination with a valve for controlling the flow

of fluid, a lever for actuating the same, and a continuously operating cam for actuating said lever, of an adjustable latch device mounted on said lever and having stops of different lengths for engaging the valve.

6. The combination of a valve for controlling a fluid supply and having a projecting stem, a lever for opening said valve, and an adjustable contact member carried by the lever for engaging said valve stem.

7. The combination of a valve for controlling a fluid supply and having a projecting stem, a lever for opening said valve, means for oscillating said lever, and an adjustable contact member carried by the lever and having stops of different lengths for engaging said valve stem.

CLEMENT F. STREET.

Witnesses:

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