

(No Model.)

2 Sheets—Sheet 1.

I. BLOCH.

MACHINE FOR ATTACHING GASKETS TO CAN HEADS.

No. 579,104.

Patented Mar. 16, 1897.

Fig. 3.

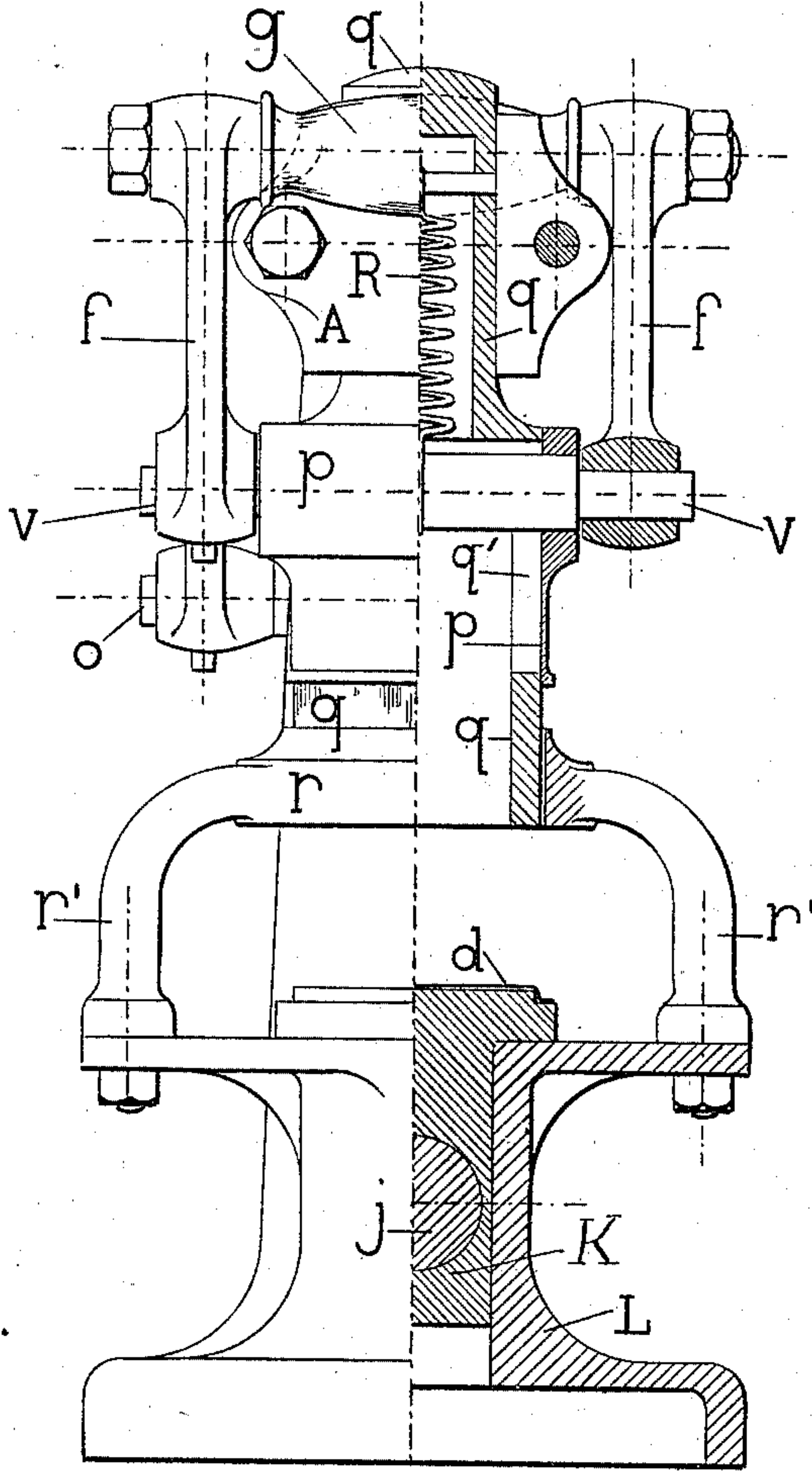


Fig. 1.

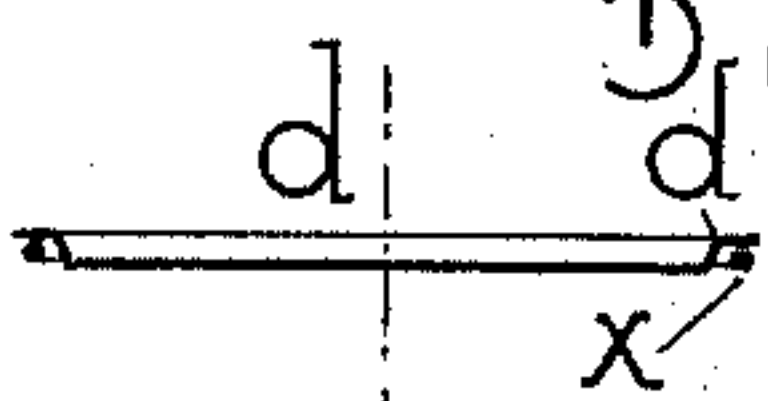
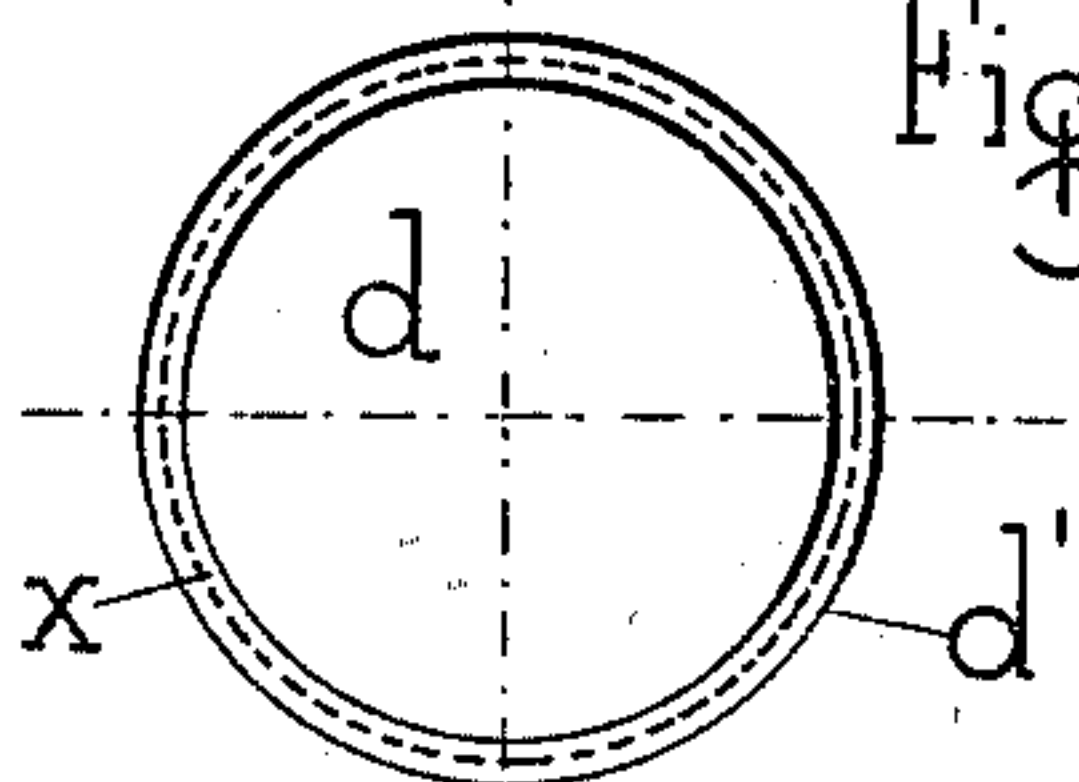


Fig. 2.



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(No Model.)

2 Sheets—Sheet 2.

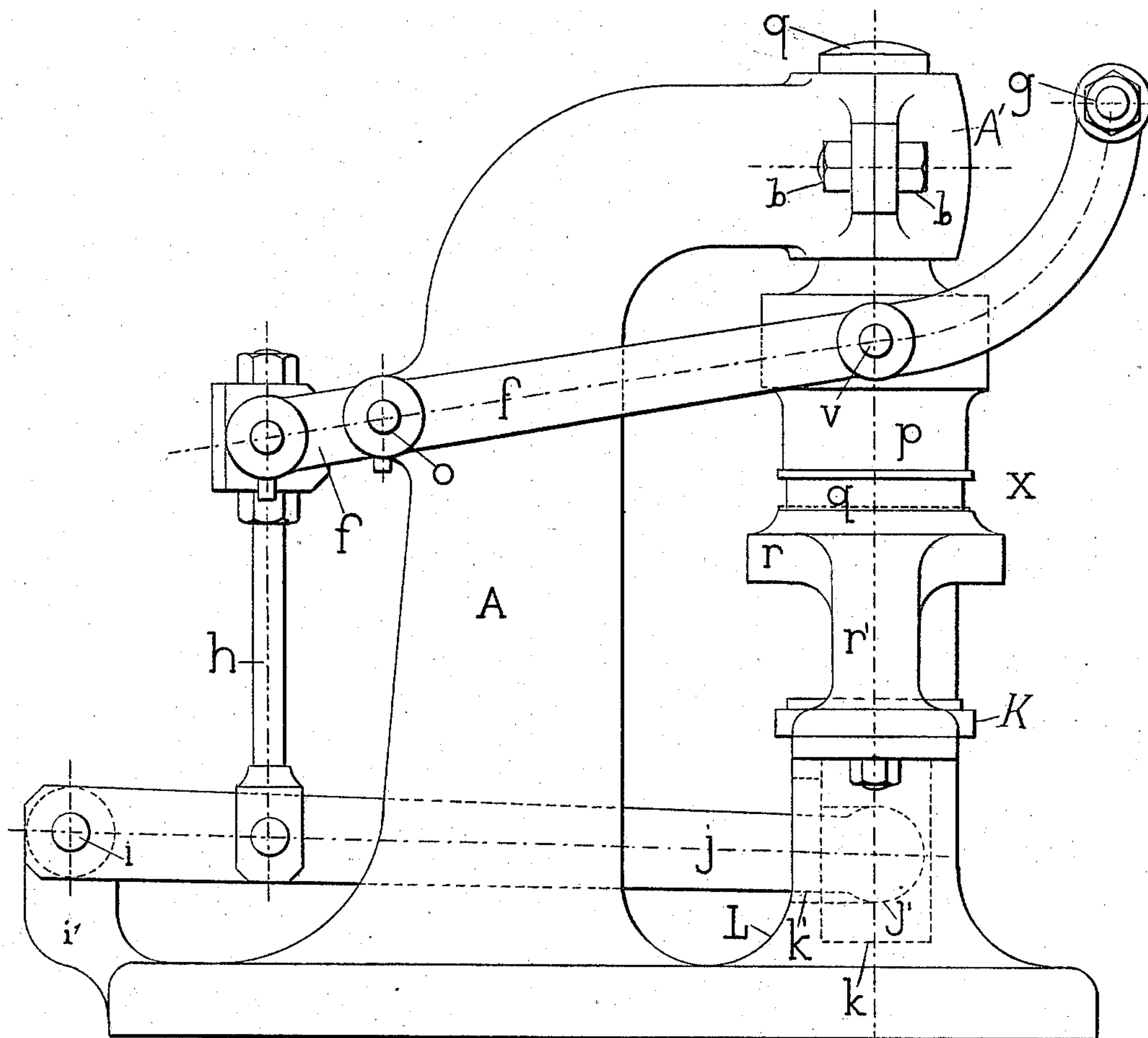
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Fig. 4.



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UNITED STATES PATENT OFFICE.

ISIDORE BLOCH, OF PARIS, FRANCE, ASSIGNOR TO EDWARD MAMELSDORF,
OF NEW YORK, N. Y.

MACHINE FOR ATTACHING GASKETS TO CAN-HEADS.

SPECIFICATION forming part of Letters Patent No. 579,104, dated March 16, 1897.

Application filed October 10, 1896. Serial No. 608,440. (No model.) Patented in France October 25, 1895, No. 248,488.

To all whom it may concern:

Be it known that I, ISIDORE BLOCH, a citizen of France, residing at Paris, France, have invented certain new and useful Improvements in Machines for Attaching Gaskets to Can-Heads, (for which I have obtained Letters Patent in France, No. 248,488, dated October 25, 1895,) of which the following is a specification.

10 In hermetically sealing preserving-cans two systems are employed—one by soldering the head on the can-body and the other by seaming. The latter system requires for securing a hermetic sealing of the can or box the employment of a rubber ring or gasket between the head or body of the can or box. This means of sealing the joint is objectionable for the reason that by the action of the heat it is liable to become loose. It is further objectionable as it cannot be applied to cans in which oil, fats, preserves, &c., are contained, as these substances gradually dissolve the rubber ring or gasket.

My invention relates to new machines for 25 attaching gaskets to can-heads, whereby is produced a novel joint which fully complies with all the requirements and which is not impaired by the action of oil, saccharine liquids, or heat. The joint produced is made a certain thickness, so that it yields or gives in 30 seaming the heads of the cans and supplies a very hermetic closure for the same. While the rubber gasket can only be set or shaped by heat, the cementing of a gasket to the can-heads under my invention can be done by means of any suitable glue.

In the accompanying drawings, Figure 1 is a vertical section of a head of a can or other vessel provided with its gasket. Fig. 2 is a 40 plan view of the head. Fig. 3 is a front elevation of the machine for applying the gaskets to the heads, partly in vertical section at the right-hand side through the axis of the piston. Fig. 4 is a side elevation of the machine.

45 Similar letters of reference indicate corresponding parts.

The offset circumferential portion d' of the head d of a can or like vessel is coated on its under surface with a suitable glue, and said 50 coated part of the head is then covered by a gasket formed of woven fibers of amiantus,

which is cut and formed into proper shape in any suitable manner.

My improved machine (see Figs. 3 and 4) is mounted on a suitable standard A , made 55 of gooseneck shape, which is provided with bearings for the shaft o , to which is pivoted a double lever f . The short rear arms f' of the double lever f carry a link h , which is pivoted to a lever j , that is applied by a pivot i 60 to a bracket i' , projecting from the base of the standard A . Supported by the standard A is a guide-cylinder q , which is supported by clamping it between the concaved upper end of the standard A and a removable clamp 65 A' , which is secured to the standard by means of bolts and nuts b , which pass through ears on the clamping-section and corresponding ears on the standard. By tightening up the nuts the clamping-section A' is caused to 70 firmly hold the guide-cylinder q against the upper end of the standard A . The double lever f is pivoted near its mid-length to studs V of a vertically-movable hollow plunger p , which is guided on the fixed guide-cylinder 75 q , while the front ends of the double lever f are connected by a transverse handle g . By lowering the double lever f the cylindrical hollow plunger p is guided on the stationary cylinder q , which latter projects into the opening in a circular yoke r , that is supported by 80 arms r' on the base of the standard A . The interior diameter of the yoke r is slightly larger than the exterior diameter of the lower end of the guide-cylinder q . The lever j engages by its rounded-off forward end in a corresponding cavity j' of a piston K , which is 85 guided in a chamber k of a cylinder L , forming part of the base of the standard A , said cylinder having a lateral orifice k' , through 90 which the lever extends.

For applying the covering-gasket x to the offset portion d' of the head d , the head, after being coated at its circumference with a suitable liquid glue, is placed on the top of the 95 piston K , which has at its upper end a profile that corresponds to that of the head d . The packing-ring or gasket is then placed around the lower part of the cylinder q below the hollow plunger p , said gasket being cut 100 lengthwise of the fibers, so as to form a perfect packing-joint. By lowering the double

lever f by means of its handle g the hollow cylindrical plunger p is moved downwardly, so that the gasket x is passed between the guide-cylinder q and the yoke r . During this
 5 period the piston K and the head d , supported on the same, are raised so that the glue-coated circumference d' of the head is placed in contact with the gasket x , and the latter is placed
 10 around the circumference of the head by the action of the plunger p and piston K . Pressure is exerted on the circumference of the head until the gasket adheres tightly to the same without being able to change its shape.

The gaskets are caused to pass through the
 15 space between the yoke and guide-cylinder q by placing a number of the same in superposed series around the lower end of the cylinder, so that the pressure exerted on the upper ones by the lowering of the hollow plunger
 20 will be imparted to the lower ones, whereby the latter are forced off the cylinder q .

A spring R is suspended in the hollow interior of and from the upper part of the stationary guide-cylinder q and is attached to
 25 the studs V , that pass through slots q' in the guide-cylinder, so that when the lever is released the movable parts may be returned under the actuation of said spring to their former raised position, thus permitting the
 30 head d and its attached gasket to be removed from the piston K . The shapes of the heads can be changed at pleasure by providing some with different profiles, in which case the profiles of the plunger p , stationary cylinder q ,
 35 and piston K must be in conformity with the head.

My improved machine is especially adapted for applying gaskets made of amiantus; but

this gasket may, if necessary, be made of other suitable material which can be applied
 40 by suitable glue to the circumference of the head.

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

1. In a machine for attaching a gasket to can-heads, the combination with a standard, a yoke supported from the standard, and a stationary guide-cylinder projecting into the
 50 opening in the yoke, of a piston guided below the yoke, a cylindrical hollow plunger guided on the fixed guide-cylinder, and means for operating said piston and said hollow plunger, substantially as set forth.

2. In a machine for attaching gaskets to
 55 can-heads, the combination with the supporting-standard, a yoke supported at the lower part of the standard, and a stationary guide-cylinder supported from the upper part of the standard, of a piston guided in the lower
 60 part of the standard below said yoke, a hollow cylindrical plunger guided on said guide-cylinder, a hand-lever fulcrumed to the standard and pivotally connected with said plunger, and connections between the hand-lever
 65 and piston, whereby the piston and the plunger are simultaneously operated, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.
 70

ISIDORE BLOCH.

Witnesses:

ADOLPH SAMUEL AMSON,
 EDWARD P. MACLEAN.