

No. 639,258.

Patented Dec. 19, 1899.

E. H. LUNKEN.
STRAIGHTWAY VALVE.

(Application filed Aug. 12, 1897.)

(No Model.)

Fig. 1.

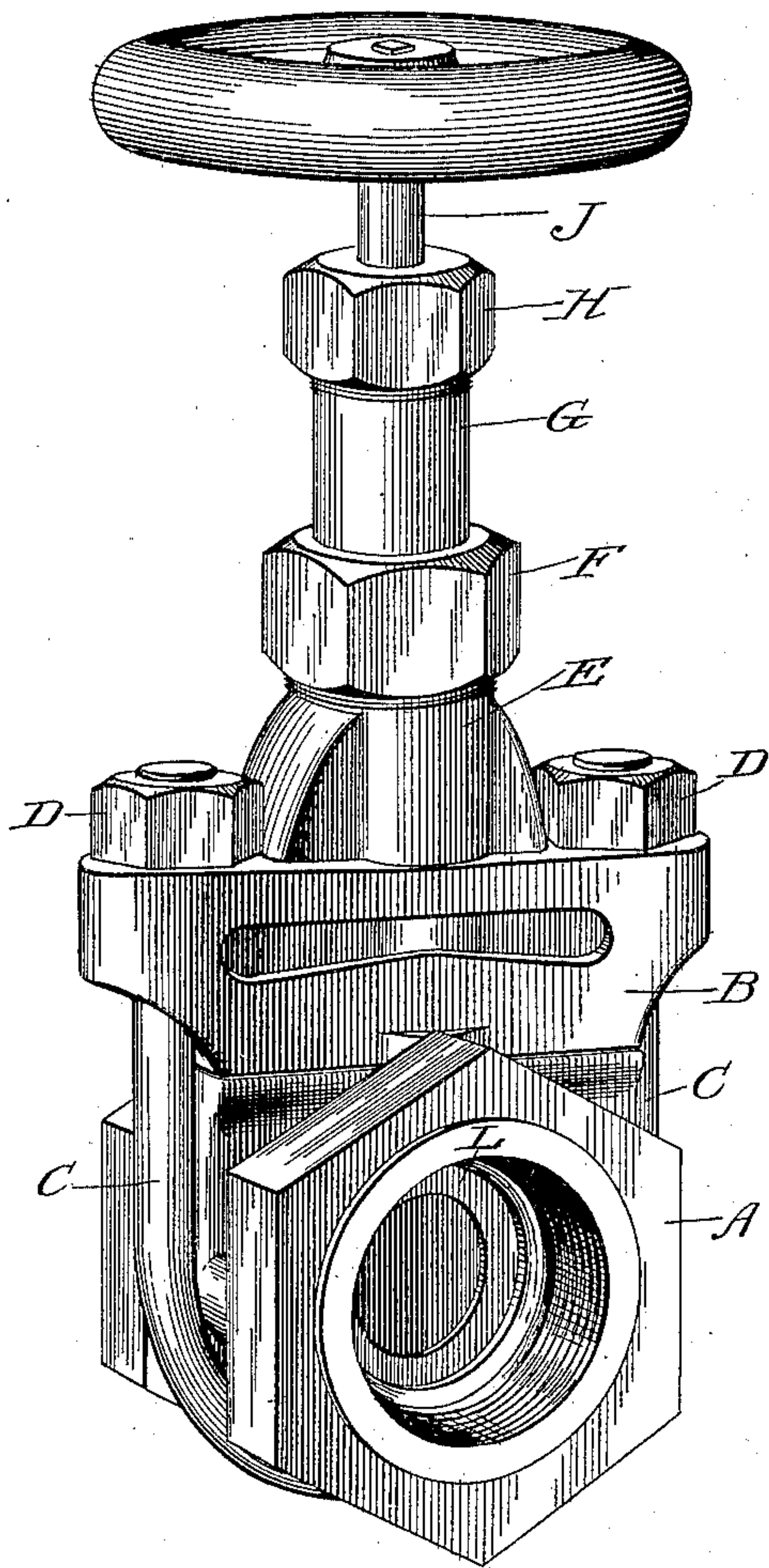
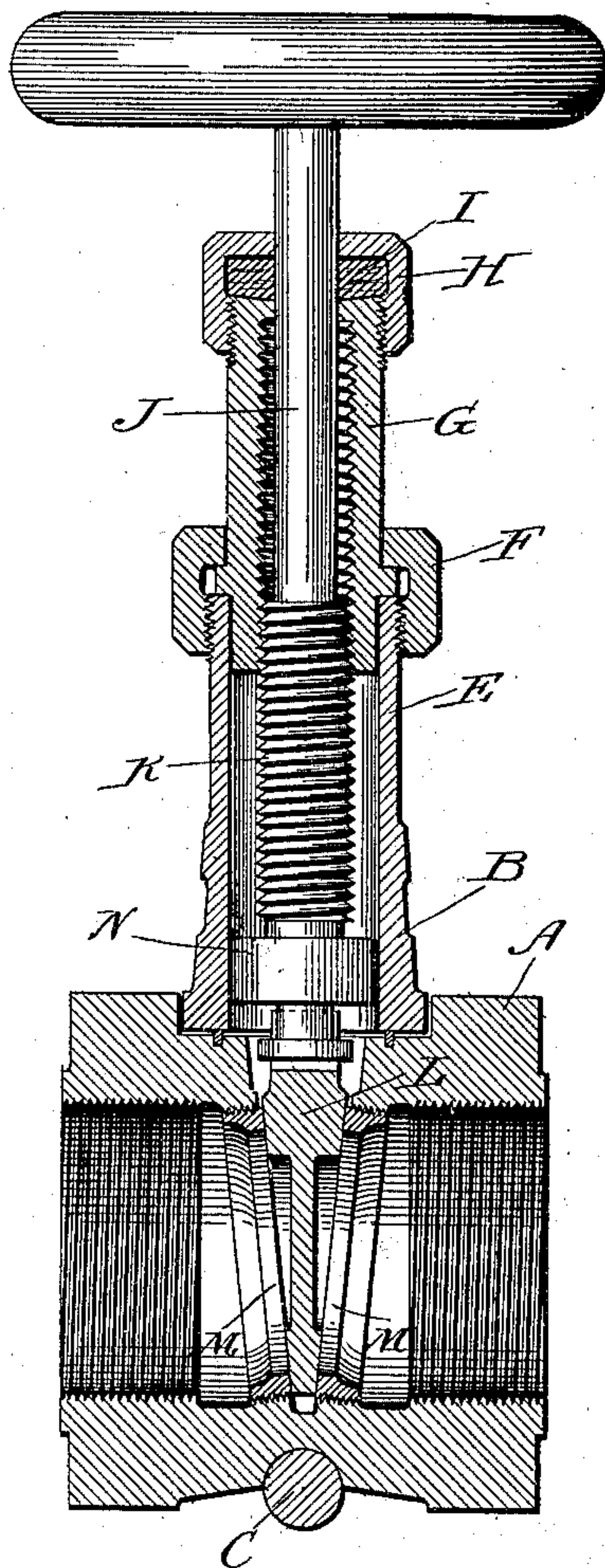


Fig. 2.



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UNITED STATES PATENT OFFICE.

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STRAIGHTWAY VALVE.

SPECIFICATION forming part of Letters Patent No. 639,258, dated December 19, 1899.

Application filed August 12, 1897. Serial No. 647,968. (No model.)

To all whom it may concern:

Be it known that I, EDMUND H. LUNKEN, a citizen of the United States, residing at the city of Denver, in the county of Arapahoe, in the State of Colorado, have invented a certain new and useful Improvement in Straightway Valves, of which the following is a description, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of my new valve, and Fig. 2 a middle vertical section of the same longitudinally of the passage through the valve.

The valve-casing proper consists of the body portion A, having the opposite internally-threaded pipe connections and the hub or bonnet portion B, the latter being a narrow elongated body seated transversely upon the part A of the casing and secured to the latter by a U-shaped clip C, passing around the body portion A and extending at its upper end through ears formed upon the opposite ends of the bonnet B and having binding-nuts D screwed upon its upper ends above said ears, the construction of the valve in these respects being similar to that of valves heretofore patented to me. The bonnet or hub B of the valve has at the middle of its upper side a vertically-extending tubular neck E, whose internal bore extends downwardly through the bonnet and communicates at its lower end with the valve-opening in the body A. Coupled to the upper end of the neck E of the bonnet by a union-nut F is a vertical internally-threaded extension G, upon whose upper end is screwed a cap-nut H, which confines a packing I around the valve-stem J. The latter is provided with a threaded portion K, adapted to cooperate with the threads in the extension G, and at its extreme lower end has coupled to it the valve L, which is wedge-shaped and cooperates with the inclined removable seats M M, which are screwed into the body A, as shown. Near its lower end, below its threaded portion K, the valve-stem J in the instance shown in the drawings is provided with an enlargement or collar N,

fitting the internal bore of the bonnet B and its neck E and serving to guide the valve-stem in its vertical movements. This enlargement or collar N is not essential, however, and may be dispensed with; nor is it essential that the internally-threaded extension G be secured to the upper end of the neck E of the bonnet by a union-nut F, since, instead of this means of connection, the lower end of the extension G may be externally threaded and the upper end of the neck E be internally threaded and the former screwed directly into the latter.

The casing proper of the valve, consisting of the body A and bonnet B E, is made of cast-iron to give it great rigidity in proportion to the weight of metal employed, as well as to lessen its cost, while the internally-threaded extension G is made of brass, so that the threads cooperating with those on the valve-stem may be of brass and not liable to rust.

Having thus fully described my invention, I claim—

The combination with the valve-body having valve-seats therein and an opening in the side between said seats, of an iron hub or bonnet having a hollow neck, a U-shaped clip passing around said body and engaging said hub or bonnet for securing the same to said body over said opening, a brass extension for said neck having a screw-threaded bore of a diameter less than that of the bore of the neck, a union-nut for stationarily securing said brass extension to the outer end of said neck, a valve, a valve-stem therefor having a screw-threaded portion engaging the screw-threaded bore of said brass extension and adapted to work in said neck out of contact with the walls thereof, a guide-collar on the inner end of said valve-stem, and a packing-nut for the stem secured on said brass extension, substantially as described.

EDMUND H. LUNKEN.

Witnesses:

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