

(No Model.)

N. GILROY.
VESSEL SCRAPER.

No. 587,198.

Patented July 27, 1897.

Fig. 1.

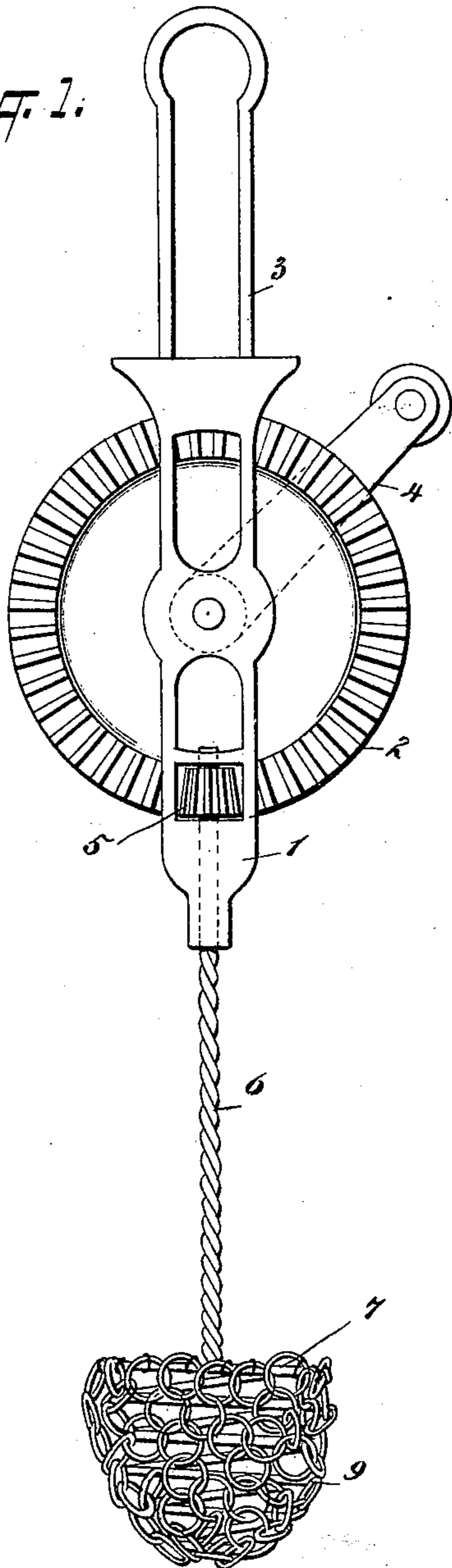
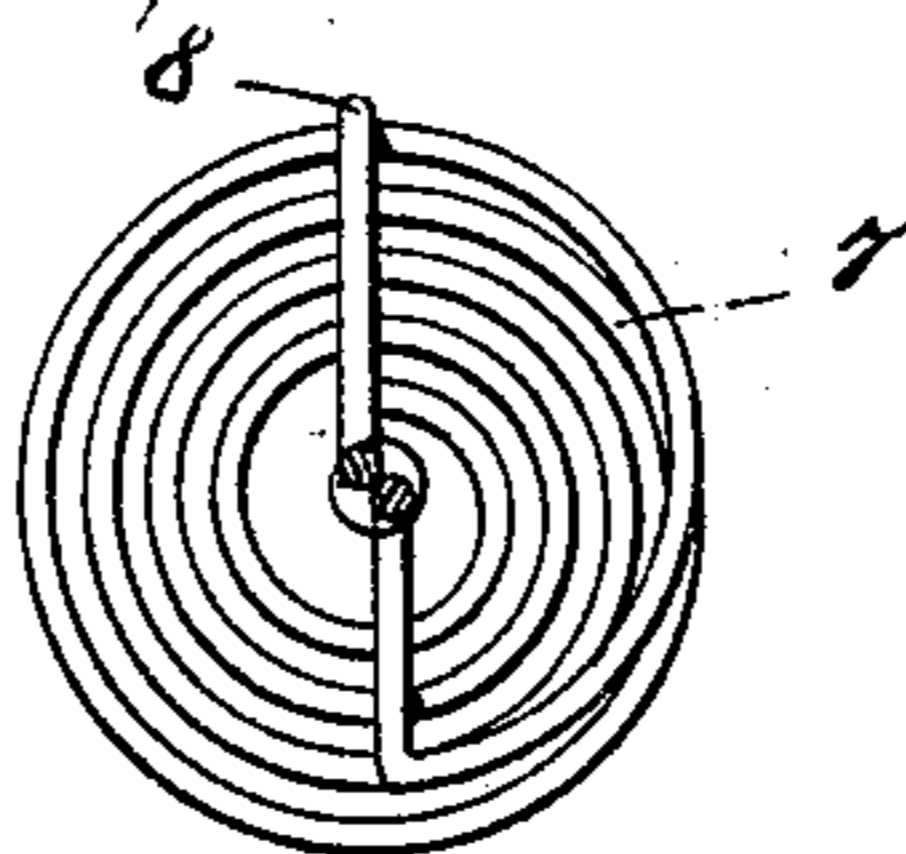


Fig. 2.



WITNESSES:

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VESSEL-SCRAPER.

SPECIFICATION forming part of Letters Patent No. 587,198, dated July 27, 1897.

Application filed April 6, 1897. Serial No. 630,932. (No model.)

To all whom it may concern:

Be it known that I, NICHOLAS GILROY, of New York city, in the county and State of New York, have invented a new and Improved Vessel-Scraper, of which the following is a full, clear, and exact description.

This invention relates to instruments for scraping and cleaning the interior of metal kettles, pots, and similar vessels; and the object is to provide an instrument by means of which rust, scale, or the like may be quickly and effectually loosened and scraped from the interior of metal vessels.

I will describe a vessel-scraper embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both views.

Figure 1 is a side elevation of a vessel-scraper embodying my invention, and Fig. 2 is a top plan view of a yielding head attached to the scraper.

The vessel-scraper comprises a frame 1, having a beveled gear-wheel 2, mounted to rotate on it, and also having a handpiece 3. The gear-wheel 2 has a crank 4, and said gear-wheel meshes with a bevel-pinion 5 on the upper end of the shank 6 of the tool. The said shank 6, it will be seen, has a bearing in the frame 1. The shank 6 consists of a length of wire coiled tightly together, and at the lower end the said shank terminates in a head.

In forming the head one end of the wire is turned outward and then is spirally coiled to form a head 7, the spirals growing less in diameter toward the bottom. The other end of the wire forming the shank and head is curved outward and attached to the upper coil of the head, as shown at 8. Loosely surrounding the yielding head 7 are a number of rings 9, looped together to form a substantially cone-shaped basket, and the upper rings are attached by wire or otherwise to the upper coil of the head.

In operation the scraping-rings 9 will be placed against the interior of the vessel to be

cleaned and pressed closely against the same. Then when rotary motion is imparted to the head by means of the gearing the linked rings will act as scrapers and remove rust, scale, or other material that may adhere to the interior of the vessel. Of course the head is to be moved around from place to place until the whole interior of the vessel shall have been scraped. Obviously the spring-head will allow the instrument to be closed tightly against the vessel, but yet will allow the device to be rotated.

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

1. A vessel-scraper, comprising a frame, a gear-wheel on said frame, a shank portion having bearings in the frame, a pinion on said shank portion meshing with the gear-wheel, a spring yielding head on the shank, and a number of linked rings surrounding the head and attached to its upper portion, substantially as specified.

2. A vessel-scraper, comprising a frame, a gear-wheel mounted to rotate on said frame, a twisted-wire shank having bearings in the frame, a pinion on said shank meshing with the gear-wheel, a spirally-wound spring yielding head on said shank, and a series of linked rings arranged substantially in the form of a basket and mounted on said spirally-wound head, substantially as specified.

3. A vessel-scraper, comprising a frame, a miter-gear mounted to rotate on said frame, a twisted-wire shank having bearings in the frame, a pinion on said shank engaging with the miter-gear, one end of said shank being turned outward and then spirally coiled, the diameter of the coils growing less toward the bottom portion, and a series of linked scraping-rings arranged substantially in the form of a basket and mounted on the spirally-wound head, the upper rings being secured to the upper coil, substantially as specified.

NICHOLAS GILROY.

Witnesses:

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