

A. H. PARTRIDGE.
DISH CLEANER.
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972,400.

Patented Oct. 11, 1910.

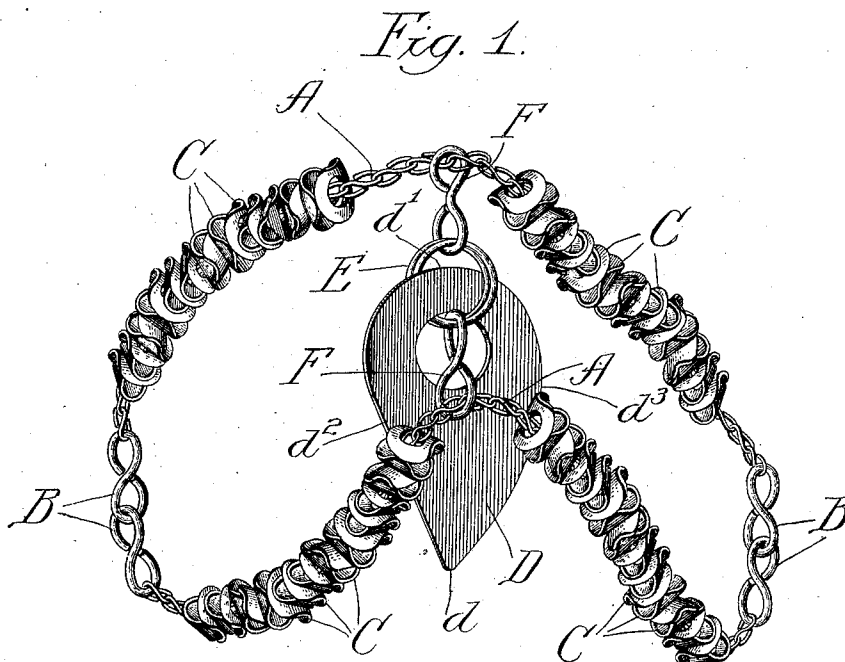


Fig. 2.

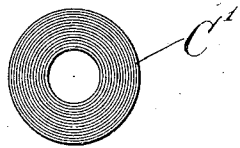
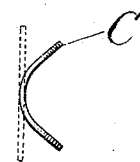


Fig. 3.



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UNITED STATES PATENT OFFICE.

ALWYN H. PARTRIDGE, OF DENVER, COLORADO.

DISH-CLEANER.

972,400.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALWYN H. PARTRIDGE, a citizen of the United States, residing at Denver, in the county of Denver and State of Colorado, have invented certain new and useful Improvements in Dish-Cleaners, of which the following is a specification.

My invention relates to that class of household utensils known as dish cleaners, and is intended more particularly as a substitute for and an improvement on the ordinary wire dish-cloth, which latter consists primarily of a loose flexible fabric of interlocked wire rings.

Among the objects sought to be attained by the present invention I may mention; (a) greater flexibility in all directions, enabling all kinds and degrees of flat and curved surfaces to be effectively scrubbed; (b) an increased number and extent of scrubbing edges in proportion to the size of the device; (c) facility of itself being cleaned; and (d) simplicity and economy of manufacture.

To these and other minor ends the invention consists essentially of a number of thin metal disks strung together on an endless chain or similar flexible holder; and in its preferred and most perfected form herein shown and described the disks are bent or curved transversely giving a degree of sinuosity to their outer edges, and are so strung on the holder that contiguous disks always present their concave or convex sides or surfaces to each other, which arrangement is effective to separate or space apart the outer edges of the disks and so enhance their efficiency for scrubbing purposes. As a further detail improvement I also preferably form the chain or other holder in a plurality of sections connected by links of larger diameter than the internal diameter of the apertured disks or rings, which construction restricts within certain limits the movement of the latter along the holder and prevents their massing in one locality. In order to more perfectly adapt the device for the cleaning of angles and corners as well as flat and curved surfaces, I may also include therein a scraper in the form of a thin plate or blade, preferably of hardened steel, of which one end is pointed and the other rounded, and one edge straight and the other curved, which scraper is suitably attached to the disk-holder, preferably between two opposite sections of the latter.

My invention will be readily understood when considered in connection with the accompanying drawing showing my preferred embodiment thereof and forming a part of this specification, in which—

Figure 1 is a plan view of the complete device in a somewhat open or separated form to more clearly illustrate the details of its structure and the relative arrangement of its parts. Fig. 2 is an enlarged detail of a centrally apertured circular blank from which the bent disks are preferably made. Fig. 3 is an enlarged detail in edge elevation of one of the bent disks, also showing in dotted lines the edge of the blank from which it is formed.

Referring to the drawing, A designates each of two sections of an endless chain connected by relatively enlarged links B, and unitedly constituting a flexible holder for a series of scrubbing devices C, which latter are simply centrally apertured metal disks strung on the chain sections A, and preferably bent or bowed transversely from a plain flat blank C' (Fig. 2) to the form shown in Fig. 3. By so grouping the disks on the chain that always two convex or two concave surfaces are contiguous, the disks are thus always separated throughout the greater part of their surfaces and edges, making practically the whole of their outer edges available for scrubbing. Furthermore, the substantially separated condition thus automatically maintained by reason of the shape of the disks and their manner of mounting on the chain greatly facilitates the washing and cleaning of the utensil of accumulated grease and other matter removed thereby.

To further increase the efficiency of the device for cleaning corners, angles and concave surfaces, I have shown attached thereto a scraper D of hardened steel which preferably takes the form of a flat blade having a pointed end d^1 , a rounded opposite end d^2 , a straight edge d^2 and a convex edge d^3 of varying curvature between its ends. This scraper may be attached to the holder at any point, but preferably, and as herein shown, it is equipped with a ring E that is secured by links F to the chain sections A substantially centrally of the latter, which arrangement, with the links B connecting the chain sections, divides the disks C into four spaced groups, thus preventing the massing or bunching of the disks at one locality on the holder.

From the foregoing it will be seen that my invention provides a simple, easily assembled, and cheaply manufactured dish cleaner of efficient form and structure for its intended purposes chiefly by reason of the relatively large number of scraping or scrubbing edges which it presents and its facility for being itself cleaned of the matter removed thereby. Obviously the shapes and relative arrangement of the parts may be varied more or less within the constructional principle of the device without involving any departure from the inventive idea embodied therein or sacrificing any of the advantages secured thereby.

I claim:

1. A dish cleaner comprising a flexible holder and a plurality of transversely bent scrubbing disks strung thereon.

2. A dish cleaner comprising a flexible holder and a plurality of transversely bent scrubbing disks strung thereon with their concave sides adjacent and their convex sides adjacent.

3. A dish cleaner comprising an endless flexible holder formed of a plurality of chain sections, a group of thin metal disks strung on each section, and links connecting said sections and spacing apart said groups of disks.

4. A dish cleaner comprising a flexible holder formed of a plurality of chain sections, a group of transversely bent thin metal disks strung on each section with their concave sides adjacent and their convex sides adjacent, and links connecting said sections and spacing apart said groups of disks.

5. In a dish cleaner of the character specified, the combination with an endless flexible holder and a plurality of scrubbing disks strung thereon, of a scraper blade attached to and between opposite sides of said endless holder.

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