

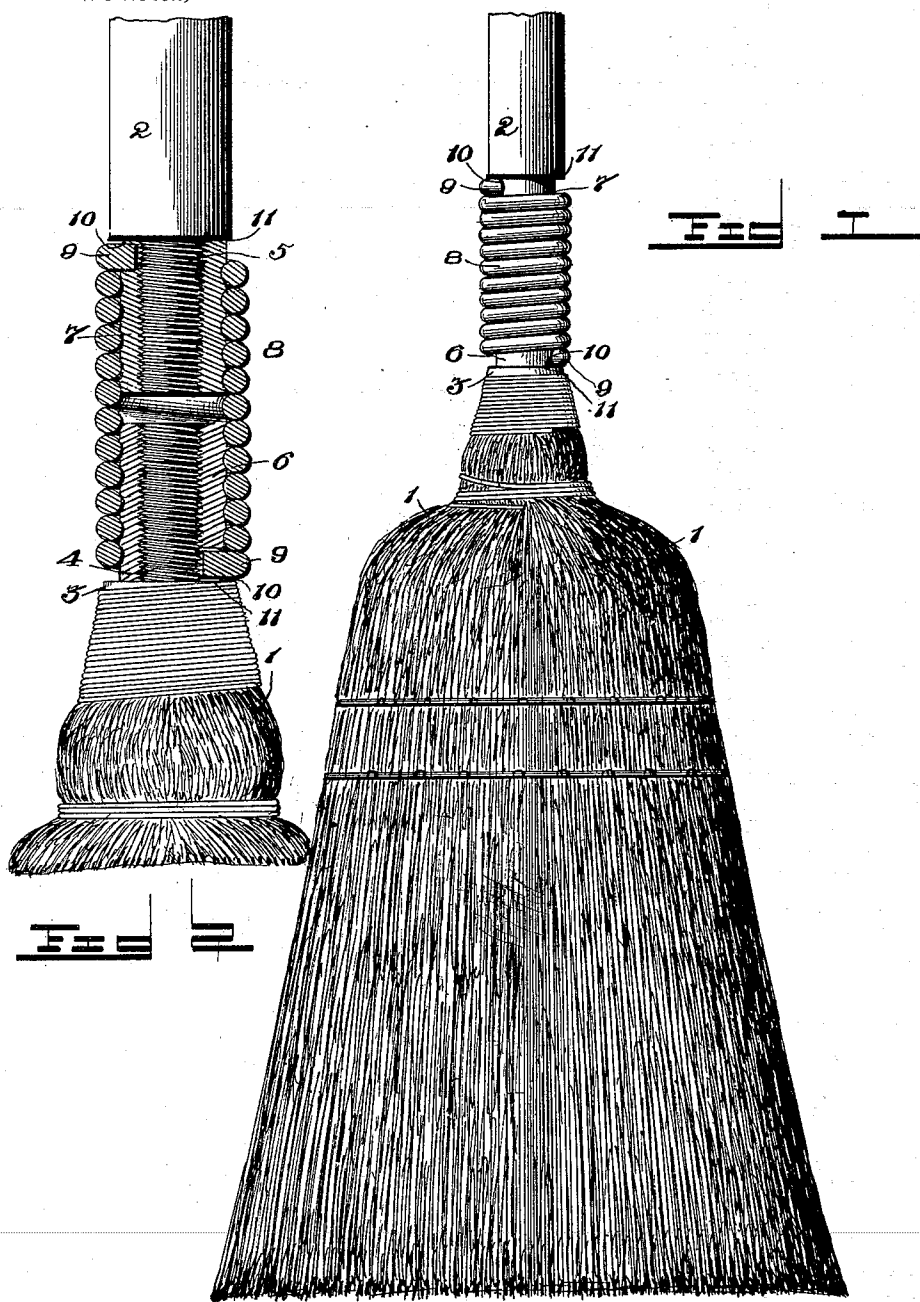
No. 637,668.

Patented Nov. 21, 1899.

M. L. RISON.
SPRING HANDLE FOR BROOMS.

(Application filed May 20, 1899.)

(No Model.)



Witnesses

John Maupin
[Signature]

By *his* Attorney

M. L. Rison

Inventor

[Signature]

UNITED STATES PATENT OFFICE.

MASTIN LEE RISON, OF PARIS, TENNESSEE, ASSIGNOR TO THE PARIS
SPRING MANUFACTURING COMPANY, OF SAME PLACE.

SPRING-HANDLE FOR BROOMS.

SPECIFICATION forming part of Letters Patent No. 637,668, dated November 21, 1899.

Application filed May 20, 1899. Serial No. 717,584. (No model.)

To all whom it may concern:

Be it known that I, MASTIN LEE RISON, a citizen of the United States, residing at Paris, in the county of Henry and State of Tennessee, have invented a new and useful Spring-Handle for Brooms, of which the following is a specification.

This invention relates to handles for brooms and similar implements, and has for its object to provide an improved flexible or yielding joint in the handle, preferably adjacent to the broom-head, whereby the arms of the operator are greatly relieved from the usual strain incidental to the use of a stiff or non-flexible handle.

To this end the present invention consists in the combination and arrangement of parts hereinafter fully described, shown in the accompanying drawings, and particularly pointed out in the appended claim.

In the drawings, Figure 1 is an elevation of a broom having the improvement applied thereto. Fig. 2 is an enlarged detail longitudinal sectional view of the flexible joint or connection.

Corresponding parts are designated by like reference characters in each figure of the drawings.

Referring to the accompanying drawings, 1 designates a broom-head of common or preferred form, and 2 the broom stick or handle.

In carrying out my invention the broom-stick is formed in two sections, the long handle section 2 and a short section 3, carried by the broom-head and provided with a reduced threaded shank 4. The adjacent end of the handle-section 2 is also provided with a reduced threaded shank 5, and the shanks are provided with externally and internally threaded sleeves or ferrules 6 and 7, respectively. Encircling both of the ferrules is a coiled spring 8, having its coils registering with the exterior threads of the ferrules, whereby the handle-sections may be readily fitted into the opposite ends of the coil. The opposite extremities of the wire forming the spring-coil are bent inward transversely of the coil, so as to provide fingers or hooks 9, which are adapted to be engaged with and

removably fitted in openings or sockets 10, formed in the respective ferrules 6 and 7, whereby the coil connects the handle-sections and prevents accidental longitudinal displacement or separation thereof. It will be understood that the adjacent ends of the ferrules do not abut or come close together, so that when pressure is placed laterally upon the broom-handle, as when sweeping, the coil which forms the connection between the sections will bend laterally and impart a yielding action to the handle, whereby the broom does not offer the continuous stiff resistance to the operator thereof.

By reason of the fingers or hooks 9 of the spring-coil engaging the openings 10, provided in the ferrules, it is impossible to separate the handle-sections until the fingers or hooks have been pried out of engagement with said openings, when either of the sections may be removed from the coil, as will be readily understood. Furthermore, the openings 10 are formed in the ferrules adjacent to the shoulders 11, provided by the reduced shanks, so that the spring-coil abuts against the shoulders and is confined therebetween in an effective manner as a further guard against accidental displacement of the fingers or hooks from the openings 10.

The spring-coil may be formed from any desired size of wire, so as to provide the desired degree of flexibility for the joint of the handle, and may also be applied with equal effect to whisk-brooms and feather dusters.

Changes in the form, proportion, size, and the minor details of construction within the scope of the appended claim may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

What I claim is—

A flexible implement-handle comprising two sections, both of which have their adjacent ends reduced to form shanks with terminal shoulders, shank-incasing ferrules coextensive in length therewith and spirally grooved exteriorly to form spring-seats, the said ferrules being screwed on the shanks against the shoulders and provided adjacent to said shoulders with inwardly-extending sockets,

and a coil-spring, the end portions of which encircle the ferrules and engage the seats, and the extremities of which are bent diametrically inward and adapted to be sprung
5 into and out of the sockets in the ferrules, substantially as described.

In testimony that I claim the foregoing as

my own I have hereto affixed my signature in the presence of two witnesses.

MASTIN LEE RISON.

Witnesses:

S. H. CLARK,
J. L. HOLLAND.