

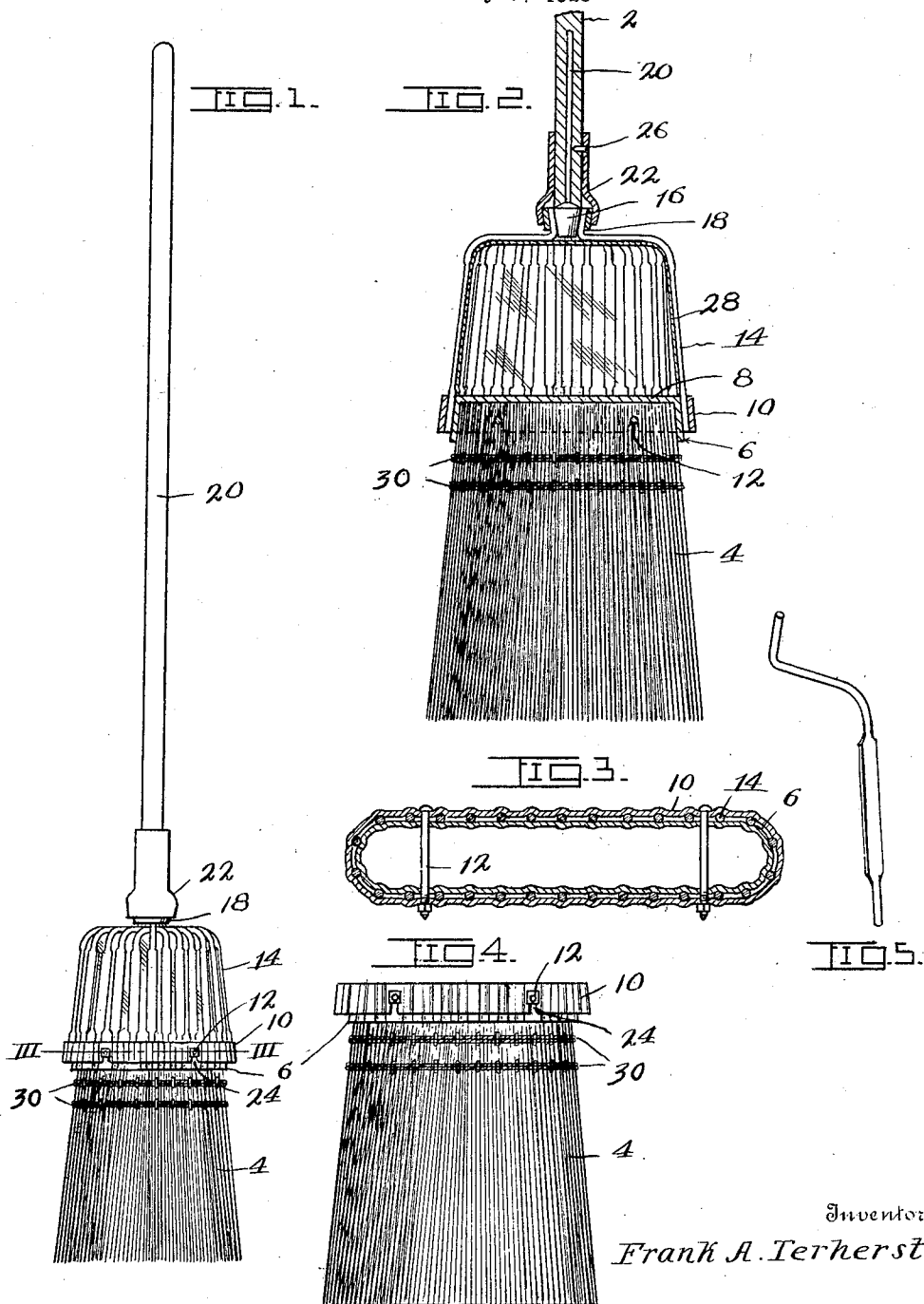
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F. A. TERHERST

BROOM

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UNITED STATES PATENT OFFICE.

FRANK A. TERHERST, OF KANSAS CITY, MISSOURI.

BROOM.

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To all whom it may concern:

Be it known that I, FRANK A. TERHERST, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Brooms, of which the following is a specification.

My invention relates to improvements in brooms such as are employed for household use, and my object is to provide a new and useful attachment for releasably fastening the broom head to the handle, so that when said broom head is worn out it can be readily replaced with another without discarding the remaining parts of the broom as is ordinarily the case.

In order that the invention may be fully understood, reference will now be had to the accompanying drawing, in which:

Fig. 1 is a side elevation of a broom constructed in accordance with the invention.

Fig. 2 is an enlarged broken vertical section of the lower portion of the broom.

Fig. 3 is an enlarged cross section with the broom head removed, on line III—III of Fig. 1.

Fig. 4 is a detail elevation of the broom head with the socket in which it is removably secured and a band associated with said socket.

Fig. 5 is a detail of one of a plurality of resilient ribs employed in carrying out the invention.

Referring now in detail to the various parts, 2 designates the handle of the broom, and 4 the broom head which consists of any suitable material such for instance as the ordinary broom straw usually employed in the construction of broom heads.

6 designates a socket which has a closed top portion 8 and is adapted to hold the broom head 4. The socket 6 is surrounded by a band 10, which is removably held in place by bolts 12.

14 designates a plurality of resilient ribs spaced, approximately, equal distances apart and having their lower ends firmly clamped between the socket 6 and the band 10, which are corrugated as shown by Fig. 3 to more firmly grip said ribs 14 as the downward flaring band is forced downwardly over the correspondingly flaring socket.

The upper ends of the ribs 14 are firmly clamped between a tapered member 16 and a tapered sleeve 18. The tapered member 16 is firmly connected to the handle 2 by a stem

20 extending upwardly into said handle 2.

22 designates a thimble secured to the handle 2 and passing downwardly over the sleeve 18 to give the broom a finished appearance and assist in holding said tapered sleeve 18 in its active position.

Clear or colored sheet mica or celluloid 28 is placed against the inner surface of the assembled ribs 14 to lend an ornamental appearance to the broom and close the spaces between said ribs to exclude and prevent dust from collecting on the top 8 of the socket 6.

In assembling the broom, the broom-head 4 is compressed to the general shape of the socket 6 but slightly smaller than the same, so that said broom-head 4 can be readily inserted in said socket, after which the broom-head expands and firmly engages the entire interior surface of the socket 6. The broom-head 4 can be further secured in place if desired by coating the inner surface of the socket 6 with glue before inserting said broom-head. The straws composing the broom-head 4 may be secured together by stitching 30 if desired. The lower ends of the ribs 14 are then placed in position against the exterior of the socket 6, after which the band 10 is forced downwardly into position to firmly hold the lower ends of the ribs 14 against the socket 6. The bolts 12 are then placed through the slots 24 in the band 10 and registering holes in the socket 6 and tightened up to firmly hold said band 10 in position and to compress the lower portion of the socket 6 firmly around the upper portion of the broom head 4. The upper ends of the flexible ribs 14 are then placed in position between the tapered member 16 and the sleeve 18, after which the former is pushed downwardly with the handle 2 until said ribs 14 are firmly clamped in place. The ribs 14 are grouped to simulate the broom head 4, as shown by Figs. 1 to 3, inclusive, and lend to the attractive appearance of the completed broom. The thimble 22 is then slipped downwardly over the sleeve 18, around which its lower end is crimped while its upper portion is secured to the broom handle 2 by suitable means such as a screw 26. The threaded ends of the bolts 12 are pointed as shown by Fig. 3, so that they can be readily pushed through the broom head 4. When the broom-head 4 becomes worn too short for further use it can be withdrawn from the socket 6 after re-

moving the bolts 12 and replaced by another without discarding any other portion of the broom. As all the parts above-described may be dissembled any part can be readily
 5 replaced in case of breakage.

From the foregoing it will be understood that by making the broom-head removable the handle and other portions of the broom may be used indefinitely, thereby constituting an efficient aid to domestic economy; and
 10 while I have shown and described the preferred construction, combination and arrangement of parts, I reserve the right to make such changes as properly fall within
 15 the spirit and scope of the claims.

Having thus described my invention, what I claim and desire to secure by Letters Patent, is:

1. A broom consisting of a broom head,
 20 holding means surrounding the upper portion of said broom head, a handle spaced above the broom head, a plurality of individual ribs connected at their lower ends to said holding means and at their upper ends
 25 to the handle and grouped to simulate the broom head, and translucent means closing the spaces between said ribs.

2. A broom consisting of a head, means for detachably receiving said head, a plurality of ribs connected at their lower ends
 30 to said receiving means, a handle provided at its lower end with a tapered element about which the upper ends of said ribs are arranged, and a tapered sleeve for holding the
 35 upper ends of said ribs firmly in position about said tapered element.

3. A broom consisting of a broom head, a socket in which said broom head is detachably mounted, closely spaced individual ribs
 40 grouped at their lower ends around said socket and extending upwardly therefrom, a band extending around said socket to hold the lower ends of the ribs in place, a handle
 45 spaced above the broom head and about which the upper ends of said ribs are grouped, and means for securing said upper ends of said ribs in position.

In testimony whereof I affix my signature, in the presence of two witnesses.

FRANK A. TERHERST.

Witnesses:

L. J. FISCHER,
 F. C. FISCHER.