No. 656,686. Patented Aug. 28, 1900.

J. WOLF.

STREET BROOM.

(Application filed Oct. 5, 1899. Renewed July 2, 1900.)

(No Model.)

Fig. 1.

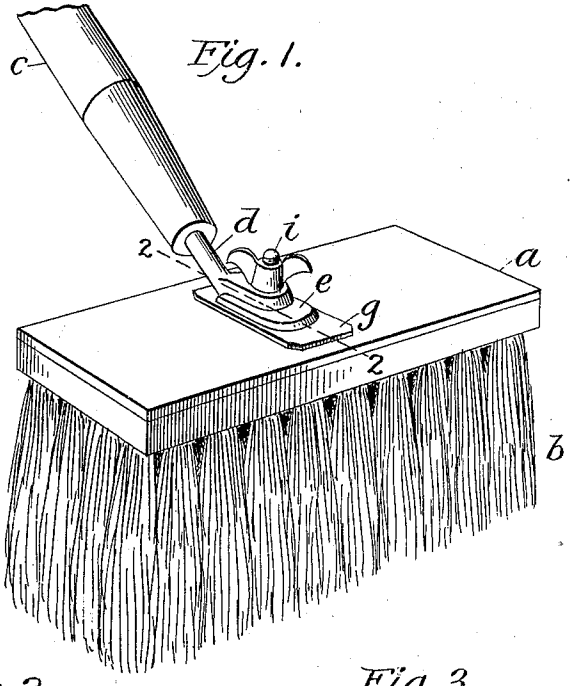


Fig. 2.

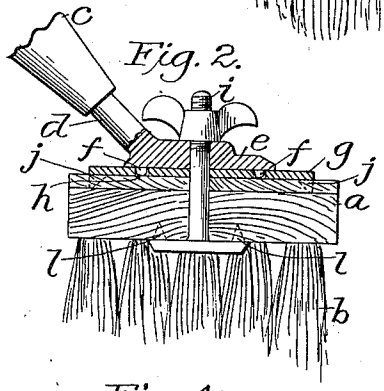


Fig. 3.

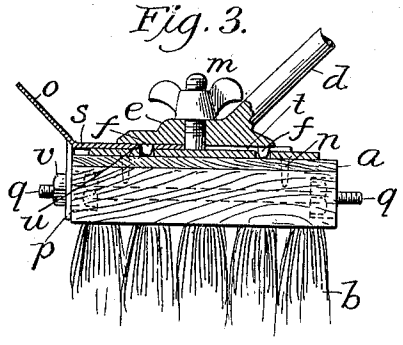


Fig. 4.

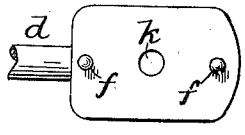


Fig. 5.

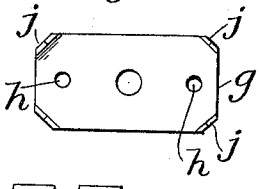


Fig. 6.

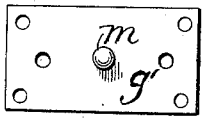
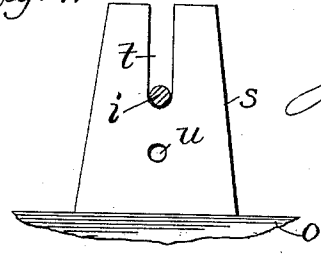


Fig. 7.



WITNESSES

James T. Durham

C. Sedgwick

INVENTOR

Julius Wolf

BY

A. P. Thayer

ATTORNEY

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JULIUS WOLF, OF NEW YORK, N. Y.

STREET-BROOM.

SPECIFICATION forming part of Letters Patent No. 656,686, dated August 28, 1900.

Application filed October 5, 1899. Renewed July 2, 1900. Serial No. 22,307. (No model.)

To all whom it may concern:

Be it known that I, JULIUS WOLF, a citizen of the United States of America, and a resident of New York city, county and State of New York, have invented certain new and useful Improvements in Street-Sweeping Brooms, of which the following is a specification.

My invention consists of improvements in brooms of the kind used for sweeping streets, stables, and in other like uses, by which it is designed to provide simpler, cheaper, and more durable brooms adapted for reversing the head and the scraper relatively to the handle, as hereinafter described, reference being made to the accompanying drawings, in which—

Figure 1 is a perspective view of my improved broom. Fig. 2 is a central transverse section through the head and the handle attaching devices on line 2 2 of Fig. 1. Fig. 3 is a transverse section with the scraper attached. Fig. 4 is a plan view of the foot-piece of the tang of the handle inverted. Fig. 5 is a plan of the under side of a washer employed in attaching the handle. Fig. 6 is a a plan view of an attaching-plate for connecting the handle in a modified arrangement. Fig. 7 is a detail showing the slotted tongue-flange of the scraper.

The broom-head *a* consists of a block of wood of the usual form and having the wires or splints *b* attached, as usual.

For a simple and substantial way of attaching the handle *c*, so that the head may be reversed relatively to the handle, which it is necessary to do frequently for reversing the stresses of service on the wires or splints from time to time by which they are more effective and durable, I construct the tang *d* with a foot-piece *e*, elongated in the transverse direction of the head *a* and having a stud *f* on the under side near one extremity or one near each extremity, said foot-piece having a hole *k* for the bolt *i*, and with the tang so constructed I provide a washer-plate *g*, having holes *h* to receive the studs *f*, also a hole for the bolt *i*, and provided with spurs *j* for penetrating the broom-head to prevent the plate from turning.

The bolt *i* for securing the handle and the head together is inserted through the head from the under side, and it has spurs *l* to penetrate the head and prevent turning, for which there must be effective provision when the handle is detachably connected, as owing to the lateral reach of the head each way from the point of connection there are frequent violent stresses, tending to wrench the parts out of position. A thumb-nut is fitted to bolt *i* for clamping the parts together.

Instead of inserting the bolt *i* through the brush-head and the washer-plate, it may be a short bolt, as *m*, attached to a plate *g'* itself, as in Figs. 3 and 6, and the plate may be screwed fast onto the brush-head by screws *n*, Fig. 3. It will be seen that with plate *g* thus effectually secured against the wrenching stresses and the foot-piece of the tang secured by the studs a very substantial and reliable detachable fastening is obtained.

A scraper *o* is generally used, being so connected that it comes into use by turning the brush-head upside down, and it is also to be shifted when the broom-head is reversed. It is provided with one or more flanges *p*, to be clamped against the sides of the broom-head by bolts *q*, and with a tongue-flange *s* reaching over the top of the broom-head at the center, being slotted, as at *t*, to reach beyond the clamping-bolt for being securely clamped. It also has a hole *u* for one of the studs of the foot-piece of the tang. The slot *t* of the tongue affords space for the other stud of the tang. The bolts *q* are arranged as stud-bolts permanently projecting from both sides of the broom-head to receive the scraper on either side, the nuts *v* being transferable from one side to another.

The washer-plate may be omitted where the scraper is used, as its tongue-flange, having a hole for one of the stud-pins of the foot-piece, serves for holding the foot-piece.

What I claim as my invention is—

1. The combination with the broom-head and the handle, of a tang for the handle having a foot-piece provided with one or more stud-pins on its bearing-face, a washer-plate secured to the broom-head by spurs adapted to prevent it from turning thereon, and having one or more holes for the stud-pins of the foot-piece, and a clamping bolt and nut securing the foot-piece to the washer-plate and the broom-head.

2. The combination with the broom-head

and handle, of a tang for the handle having a foot-piece provided with one or more stud-pins on its bearing-face, a bolt and nut for securing the foot-piece to the broom-head, a scraper having a slotted tongue-flange adapted to be inserted under the foot-piece and secured by the bolt and nut, and provided with a hole for a stud-pin of the foot-piece, and one or more flanges adapted to be bolted to the sides of the broom-head.

Signed by me at New York, N. Y., this 2d day of October, 1899.

JULIUS WOLF.

Witnesses:
A. P. THAYER,
C. SEDGWICK.