A. C. SWEETLAND.

Stove-Pipe Joints.

No. 139,932. Patented June 17, 1873.

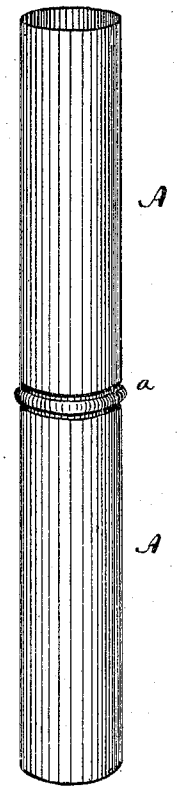

FIG. 1.

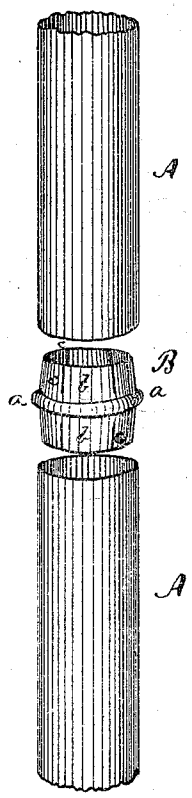

FIG. 2.

WITNESSES.

A. J. Cushing

Peter F. Hughes

INVENTOR.

Albert C Sweetland

per B F Thurston
atty.

UNITED STATES PATENT OFFICE.

ALBERT C. SWEETLAND, OF NORTH ATTLEBOROUGH, MASSACHUSETTS.

IMPROVEMENT IN STOVE-PIPE JOINTS.

Specification forming part of Letters Patent No. **139,932**, dated June 17, 1873; application filed October 21, 1871.

To all whom it may concern:

Be it known that I, ALBERT C. SWEETLAND, of North Attleborough, in the county of Bristol and State of Massachusetts, have invented a new and Improved Slip-Joint Connection for Stove-Pipe; and I do hereby declare that the following specification, taken in connection with the drawings, is a full, clear, and exact description thereof.

Figure 1 represents, in perspective, two joints of a stove-pipe united by my improved connection. Fig. 2 represents the same joints and the connection separately.

Stove-pipes are generally composed of several sections or short lengths of pipe, which are connected by slipping the ends of the sections into each other for the distance of two or three inches. As such sections are made cylindrical throughout their length, it becomes necessary to spread one of the ends of each section of pipe by hammering it in order to increase its diameter sufficiently to admit the end of the section which is to be slipped into it, and this often cracks the pipe, or otherwise injures or bruises it. With this method of connecting sections it is not easy to separate them when the pipe is taken down for the summer, or to put them together again in the autumn, without badly bruising them.

My invention consists in the use of a slip-joint connection specially contrived to hold two sections of pipe together, and by the use of which the sections of pipe can be taken apart or put together with great facility.

In the drawings, A A represent two sections of a stove-pipe. B is the slip-joint connection for uniting the same. It consists of two sections of a hollow cone united at their bases, and it will be found most convenient, as well as ornamental, to enlarge the line of junction by a half-round fillet, *a*. This will enable the ends of each of the two sections to abut against the sides of the fillet and render it less necessary that the conical collars *b b* should make a close fit in the sections. I make the slip-joint of sheet-iron cut with several slits *c* in each collar, so as to enable the collars to exert a spring pressure against the interior surfaces of the sections of pipe into which they enter.

I am aware that slip-joints for connecting sections of stove-pipe have been used before, but I do not know of any such made in the form of two hollow cones united at their base like mine, or having the slits which give the spring to the metal for the purpose I have described.

I therefore claim as my invention—

The slip-joint connection B, consisting of the conical collars *b b*, cut with slits *c*, and united at their bases so as to form a fillet *a*, substantially as and for the purpose specified.

ALBERT C. SWEETLAND.

Witnesses:
PETER F. HUGHES,
A. J. CUSHING.