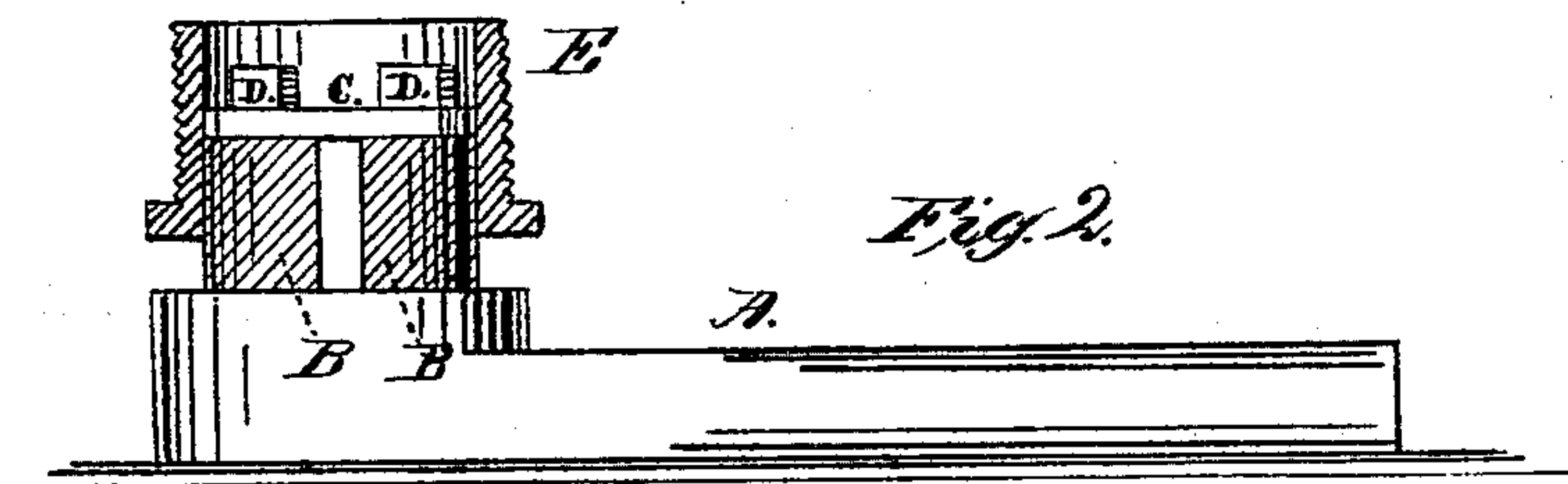
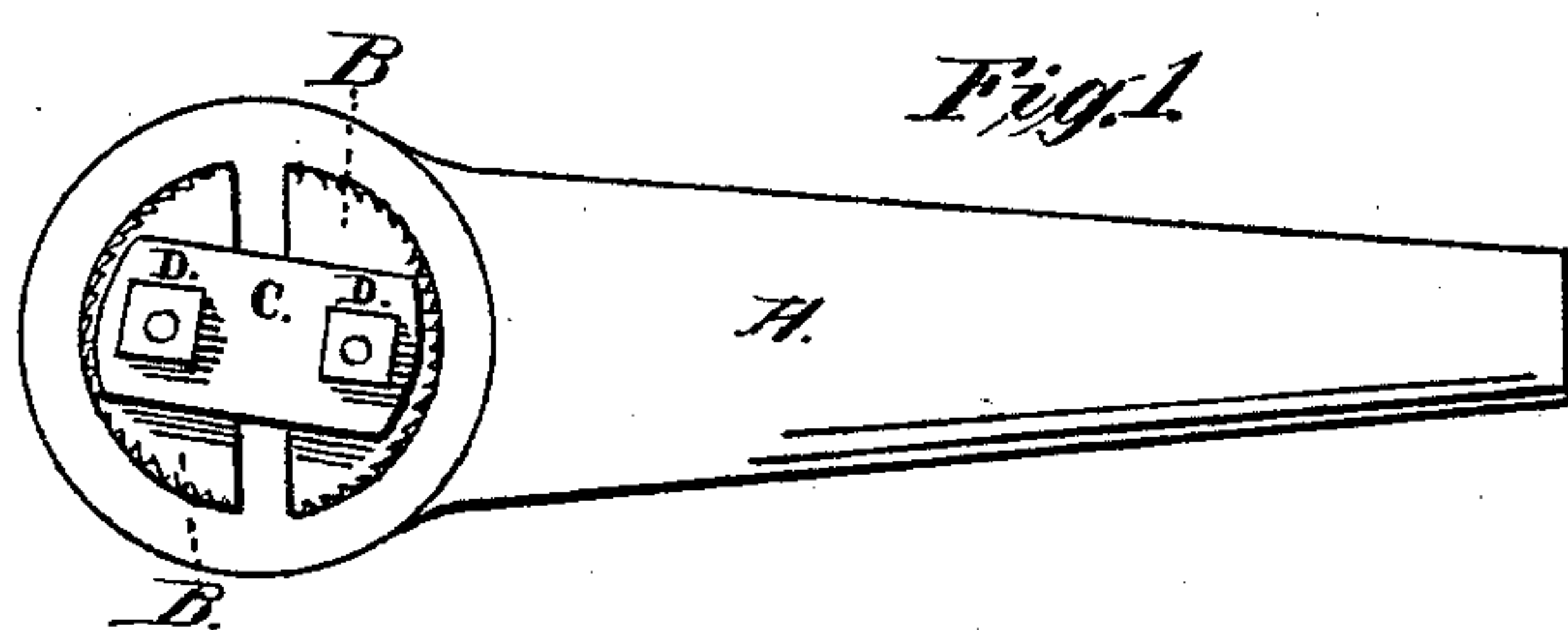


J. B. SMITH.
Bung-Bush Wrenches.

No. 148,629.

Patented March 17, 1874.



Witnesses
E. G. Smith,
E. H. Martin

Inventor:
John B. Smith

UNITED STATES PATENT OFFICE.

JOHN B. SMITH, OF MILWAUKEE, WISCONSIN.

IMPROVEMENT IN BUNG-BUSH WRENCHES.

Specification forming part of Letters Patent No. **148,629**, dated March 17, 1874; application filed May 8, 1873.

To all whom it may concern:

Be it known that I, JOHN B. SMITH, of Milwaukee, in the county of Milwaukee, in the State of Wisconsin, have invented certain Improvements in Wrenches, of which the following is a specification:

My invention is an improvement in a wrench for screwing bung-bushes into barrels, and is a double cam secured to a handle, which, when the cam is inserted in the bush and the handle turned, is spread out, and the corrugations on the outside of the cams press against the inside of the bush, and as the handle is turned screws it into the barrel.

Figure 1 is a flat view of the wrench, and Fig. 2 is a sectional view.

A is the handle of the wrench; B B, the cams; C, a bar or plate across the cams, and on the screw-bolts on which they move; D D, bolts and nuts. The bolts pass through the

cams into the handle, and the bar or plate is placed on them to keep them the right distance apart, and a couple of nuts are screwed onto the top of the bolts in the top of the cams B B; E, a bung-bush to be screwed into a barrel.

The operation of this wrench is as follows: The cams are placed inside of a bush, and as the handle A is turned the corrugations or teeth catch on the inside of the bush, and the harder the handle is turned the firmer they hold, and the bush is screwed into the hole made in the barrel for that purpose.

I claim as my invention—

The combination of handle A, cams B B, plate C, and bolts and nuts D, substantially as described.

JOHN B. SMITH.

Witnesses:

E. J. SMITH,
E. H. MARTIN.