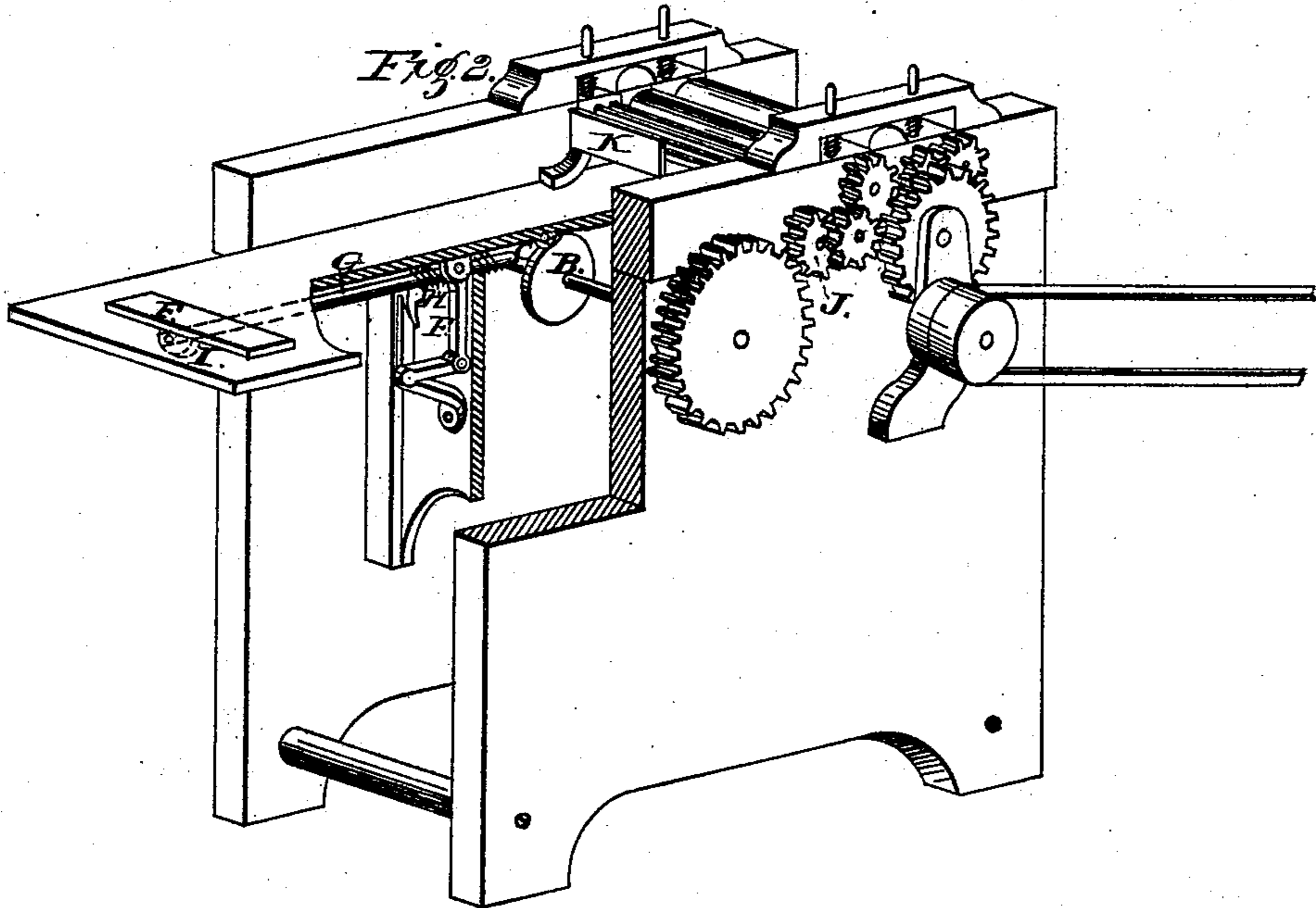
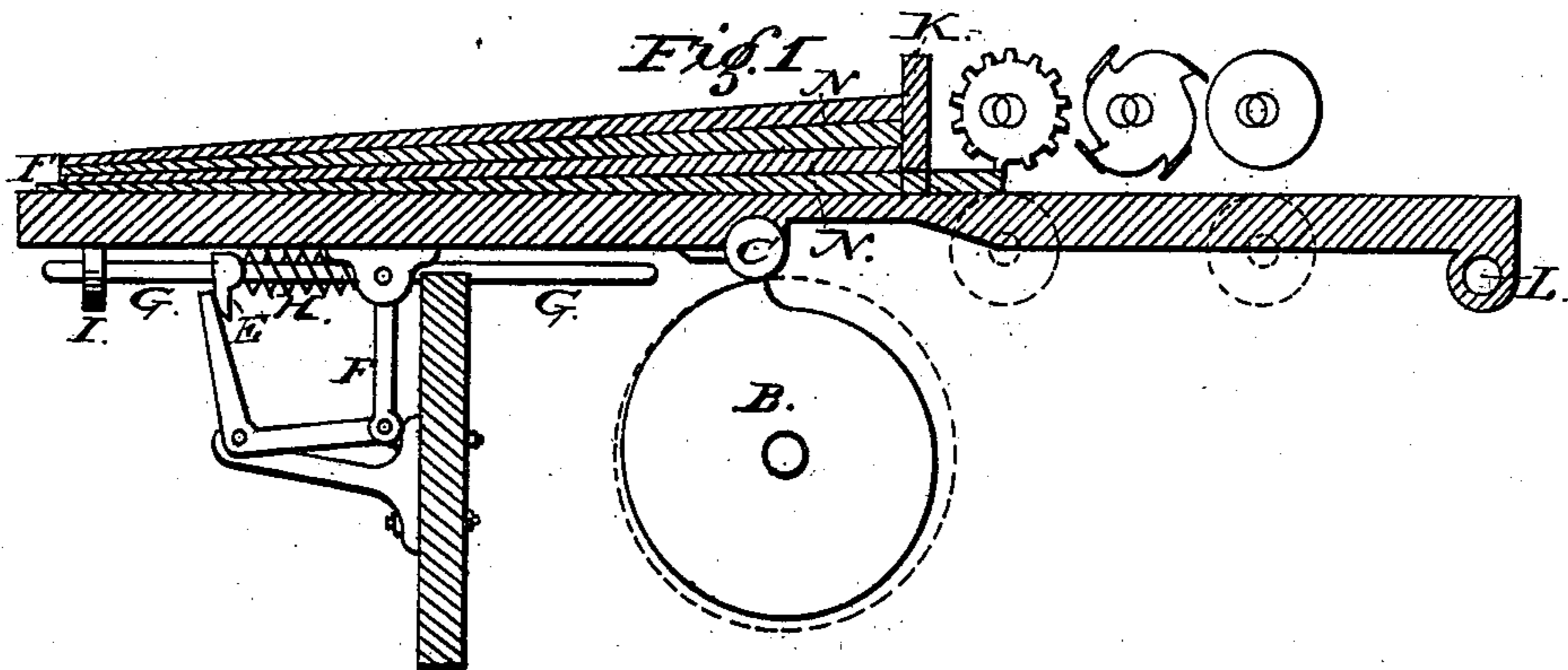


J. FLINT.

MACHINE FOR PLANING SHINGLES.

No. 178,753.

Patented June 13, 1876.



Witnesses:
Albert H. Loggins.
George W. Peoples.

Inventor:
Joseph Flint.

UNITED STATES PATENT OFFICE.

JOSEPH FLINT, OF ROCHESTER, NEW YORK.

IMPROVEMENT IN MACHINES FOR PLANING SHINGLES.

Specification forming part of Letters Patent No. **178,753**, dated June 13, 1876; application filed May 6, 1875.

To all whom it may concern:

Be it known that I, JOSEPH FLINT, of Rochester, Monroe county, New York, have invented a Shingle-Planer, of which the following is a specification:

The object of my improvement is to plane sawed shingles smooth, thus allowing the water to run off free, making them last much longer than common sawed shingles.

My improvement consists of a cam, B, which raises the table as the shingle passes through the feed-rollers and under the cylinder-cutters, giving it a gradual taper until the shingle passes through, when the cam B allows the bed to drop to receive another shingle. C is a friction-roller, fastened on the under side of the bed-plate to save friction. G G is a slide-rod. I is a socket or bearing to hold the slide-rod to its place. E is a clutch or hook fastened to the slide-rod, projecting through the table to catch and push the shingle under the feed-rollers. F is a standard or lever, that runs down and is fastened to the frame and under side of the table, which pulls the rod G forward to push the shingle under the feed-rollers. H is a spiral spring, that forces back the rod G to catch the next shingle. L is the joint that the bed-plate works in. K is a guard

or plate to prevent the shingles passing under the rollers one on top of another, and gives a chance to have a number of shingles on the table at once, keeping the planer constantly fed, which can be done by a boy, saving the expense of a man to attend to it, by placing the shingles one on top of another, with the thick end against the guard K. The clutch forces the bottom shingle through the opening under the guard to the feed-rollers, which carries it or them under the cylinder, that planes them smooth.

I claim as my invention—

1. The combination, in a planer, substantially as described, of the vibrating table, the friction-roller C, and the revolving cam B, the latter constructed and arranged to give a direct vibrating motion to the said table, substantially as described.

2. The combination of the latch E, spring-rod G, and compound lever F, for the purpose of carrying the shingles forward to the feed-rollers, substantially as described.

JOSEPH FLINT.

Witnesses:

ALBERT H. LOEBS,
GEORGE M. PEOPLES.