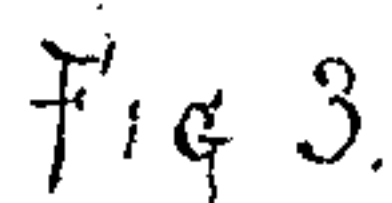
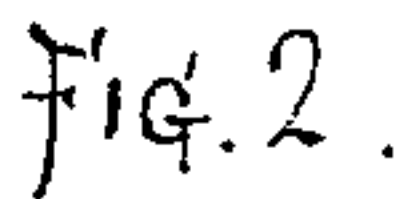
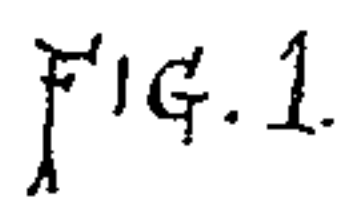


J. H. GIBBENS.  
Improvement in Elevator-Cups.

Patented Oct. 15, 1872



Witnesses:

Chas. F. Sleeper  
James B. Beals.

Inventor.

John H. Gibbens

# UNITED STATES PATENT OFFICE.

JOHN H. GIBBENS, OF ST. PAUL, MINNESOTA.

## IMPROVEMENT IN ELEVATOR-CUPS.

Specification forming part of Letters Patent No. 132,276, dated October 15, 1872.

*To all whom it may concern:*

Be it known that I, JOHN H. GIBBENS, of St. Paul, in the county of Ramsey and State of Minnesota, have invented certain Improvements in Elevator-Cups, of which the following is a specification:

The object of my invention is to provide a cup for elevators used in flour-and-grain mills and storehouses capable of being quickly detached from the belt and as quickly replaced.

At present the cups are made in one piece and riveted to the belt, and when they become foul by accumulations of flour can only be cleaned with great difficulty and delay to the work. When worn out by the friction of their edges against the spout of the elevator they must be unriveted and new ones riveted to the belt in their place, injuring the belt as well as causing great loss of time and expense. By my invention all this is remedied. My cup is made in two parts, one of which is permanently attached to the belt, while the other is so joined to it that it can be readily taken out and replaced by a clean or new one.

In the drawing, Figure 1 is a front view of my elevator-cup; Fig. 2, a section on the line *x x*; and Fig. 3, a top view or plan.

A represents a belt. B is the back piece of my cup, which is riveted to the belt, as at *a*. This piece is made of a single piece of metal, with flanges turned on the sides and bottom, as at *e e*. C is the front part of the cup, and is made with flanges on the bottom and sides, as at *g g*. These flanges fit in those of the back piece, making the whole cup complete. D is a brace, which serves to hold the sides of the cup together, and at the same time affords a hold for the tie *m*, which folds over it and prevents a separation of the parts. This tie is fastened to the back piece, and should be made of annealed metal so that it can be turned up to detach the part C, as shown in Fig. 1.

I claim as my invention—

1. An elevator-cup when composed of two parts, B and C, substantially as and for the purpose specified.
2. In combination with the parts B and C the brace D and tie *m*, substantially as and for the purpose specified.

JOHN H. GIBBENS.

Witnesses:

CHAS. F. SLEEPER,  
JAMES B. BEALS.