No. 683,218. Patented Sept. 24, 1901.

R. M. & J. A. McELROY.

LOCOMOTIVE ASH PAN.

(Application filed Mar. 5, 1901.)

(No Model.)

Fig. 1

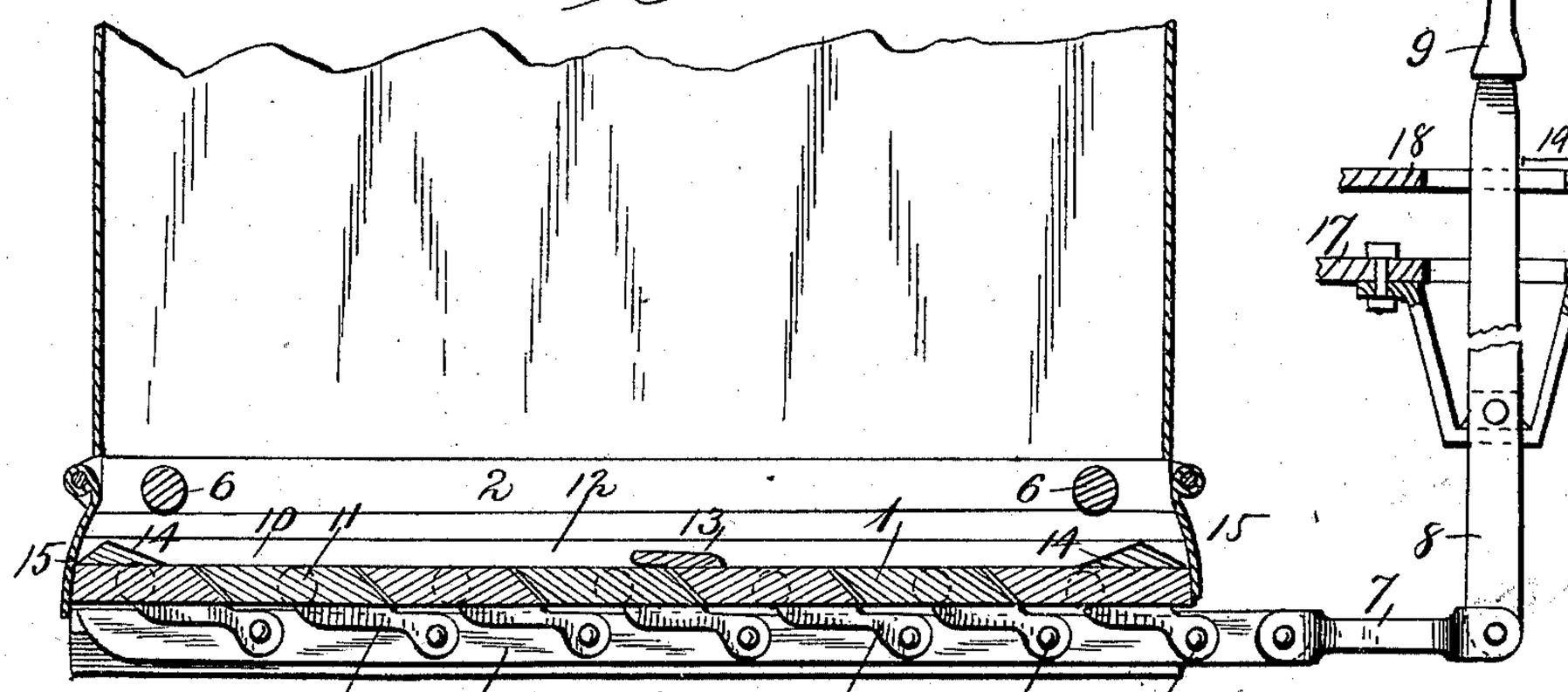

Fig. 2.

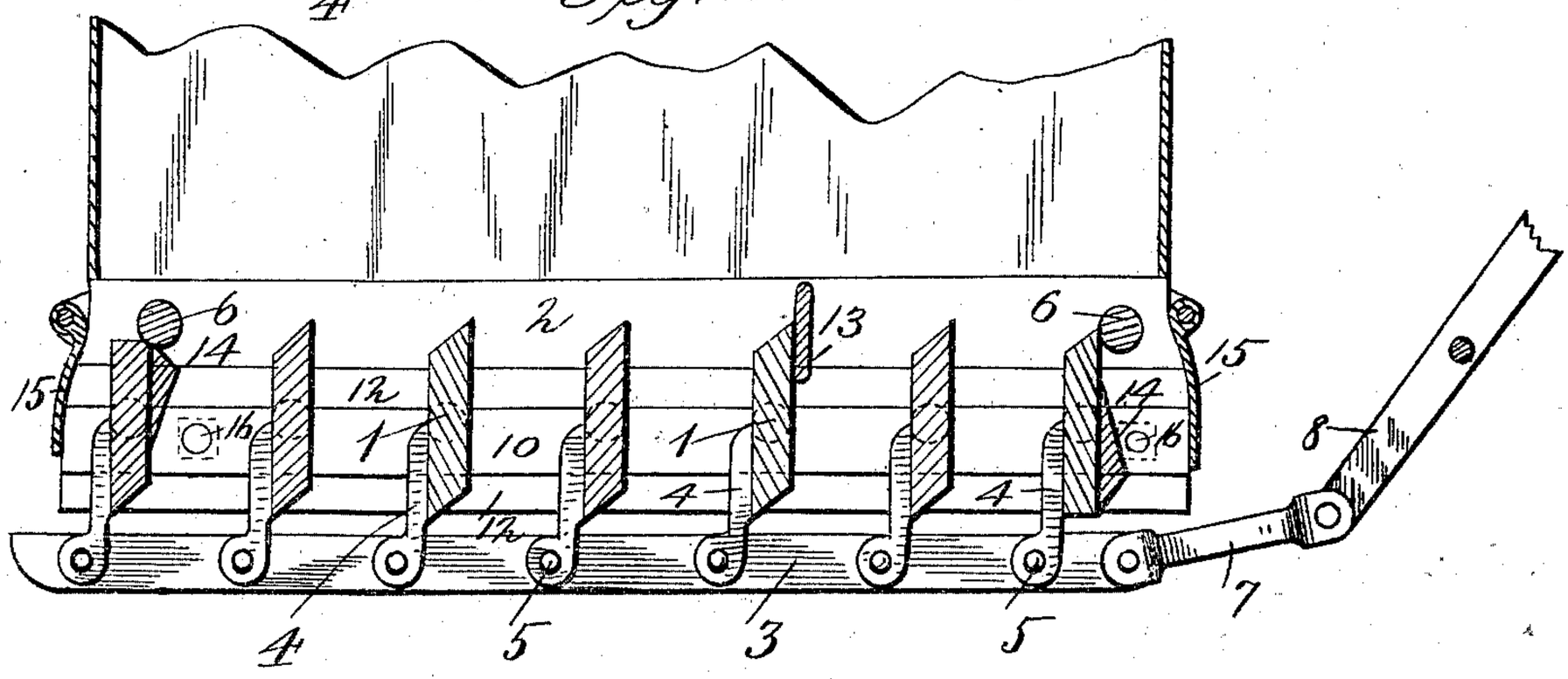

Fig. 3.

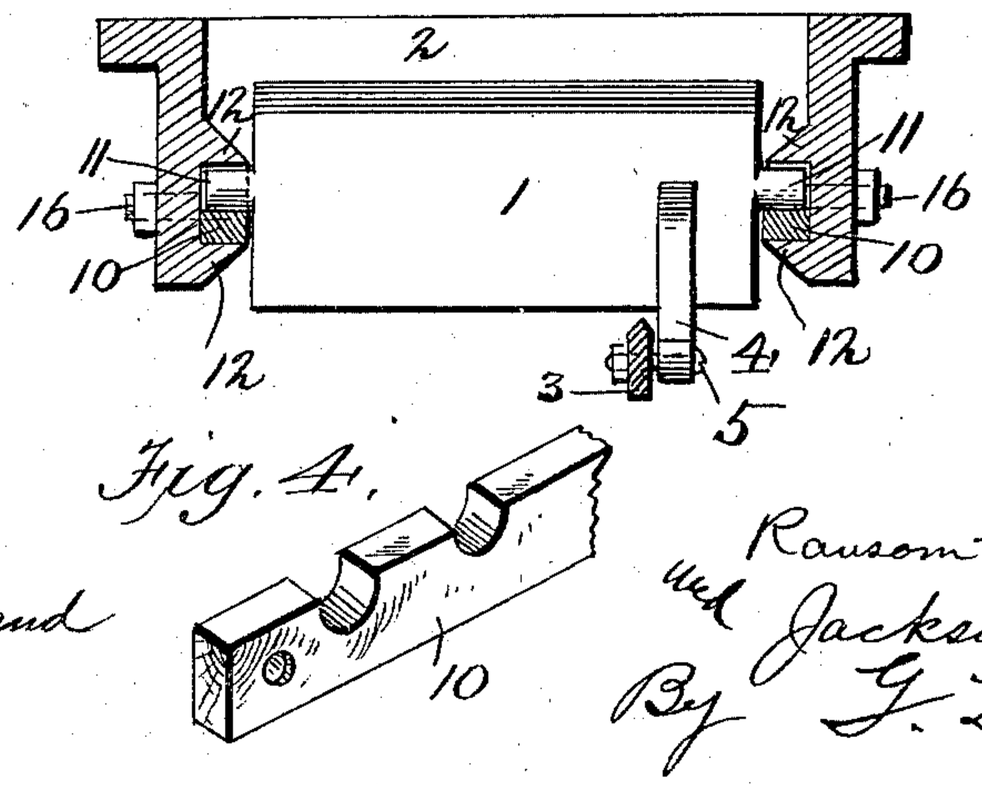

Fig. 4.

Witnesses
F. L. Ourand
G. J. Hoter.

Inventors
Rawson M. McElroy
and Jackson A. McElroy,
By G. L. Baker
Attorney.

UNITED STATES PATENT OFFICE.

RANSOM M. McELROY AND JACKSON A. McELROY, OF NEWTON, MISSISSIPPI.

LOCOMOTIVE ASH-PAN.

SPECIFICATION forming part of Letters Patent No. 683,218, dated September 24, 1901.

Application filed March 5, 1901. Serial No. 49,719. (No model.)

To all whom it may concern:

Be it known that we, RANSOM M. McELROY and JACKSON A. McELROY, citizens of the United States, residing at Newton, in the county of Newton and State of Mississippi, have invented new and useful Improvements in Locomotive Ash-Pans, of which the following is a specification.

Our invention relates to improvements in locomotive ash-pans, and has for its object to so construct the same that ashes may be dumped by the fireman without leaving the cab of the engine, and, furthermore, when the grates or slats of the same become worn or need inspection the slide-bars forming the bearings for the grate-rods being detachable may be withdrawn from the frame and the necessary repairs or inspection made.

In the drawings forming a part of this specification, and in which like symbols of reference represent corresponding parts in the several views, Figure 1 is a longitudinal sectional view of the device in its closed position. Fig. 2 is a similar view of the device open. Fig. 3 is a transverse sectional view, and Fig. 4 is a sectional view of one of the slide-bars forming the bearings for the slat-rods.

1 represents the slats which form the bottom of the ash-pan; 2, the sides of the ash-pan; 3, the tumbling-rod, which throws the slats to dump the ashes; 4, the arms by which the tumbling-rod throws the slats, and 5 the bolts connecting the tumbling-rod 3 to the arm 4.

6 represents brace-rods to brace the ash-pan, as shown, and are preferably placed at the ends of the same to perform the additional function of stops to control the slats when operated.

7 is a connecting-rod which connects the tumbling-rod with the dumping-lever 8.

9 is the dumping-lever handle.

10 is the slide-bars, in which the axles 11 of the slats are journaled, and 12 is the slides which hold the slide-bars.

13 is a strip of metal which will be riveted on the slats when the same are made of sheet-iron.

14 represents end pieces, which may be formed integral with the slats or riveted on the same, their purpose being to prevent the ashes from sifting out at the ends of the ash-pan, and 15 represents the dampers at the end of the ash-pan.

16 represents bolts connecting the slide-bars to the sides of the ash-pan.

17 shows the main frame, 18 the engine-floor, and 19 a catch to control the lever.

The operation of the device will be apparent from the foregoing, the slats being closed and the lever locked by the catch 19, and when it is desired to dump the ashes the catch is raised and the lever operated. When any of the slats or adjacent mechanism get out of order, it is only necessary to unscrew the bolts 16, withdraw the sliding bars, repair or insert new parts, and the device is ready for use.

Having fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. An ash-pan having ways formed in its sides, detachable slide-bars having bearings formed in the same adapted to be secured in said ways, slats forming the bottom of the pan, means for dumping the slats, and brace-rods at front and rear of the device forming stops for the slats when dumped.

2. An ash-pan having ways formed in its sides, detachable slide-bars having bearings formed in the same adapted to be secured in said ways, slats, means for dumping the slats, brace-rods at front and rear of the device limiting play of the slats, and end pieces on the front and rear slats to prevent escape of material from the pan.

In testimony whereof we affix our signatures in presence of two witnesses.

RANSOM M. McELROY.
JACKSON A. McELROY.

Witnesses:
C. R. HOYT,
C. H. DOOLITTLE.