

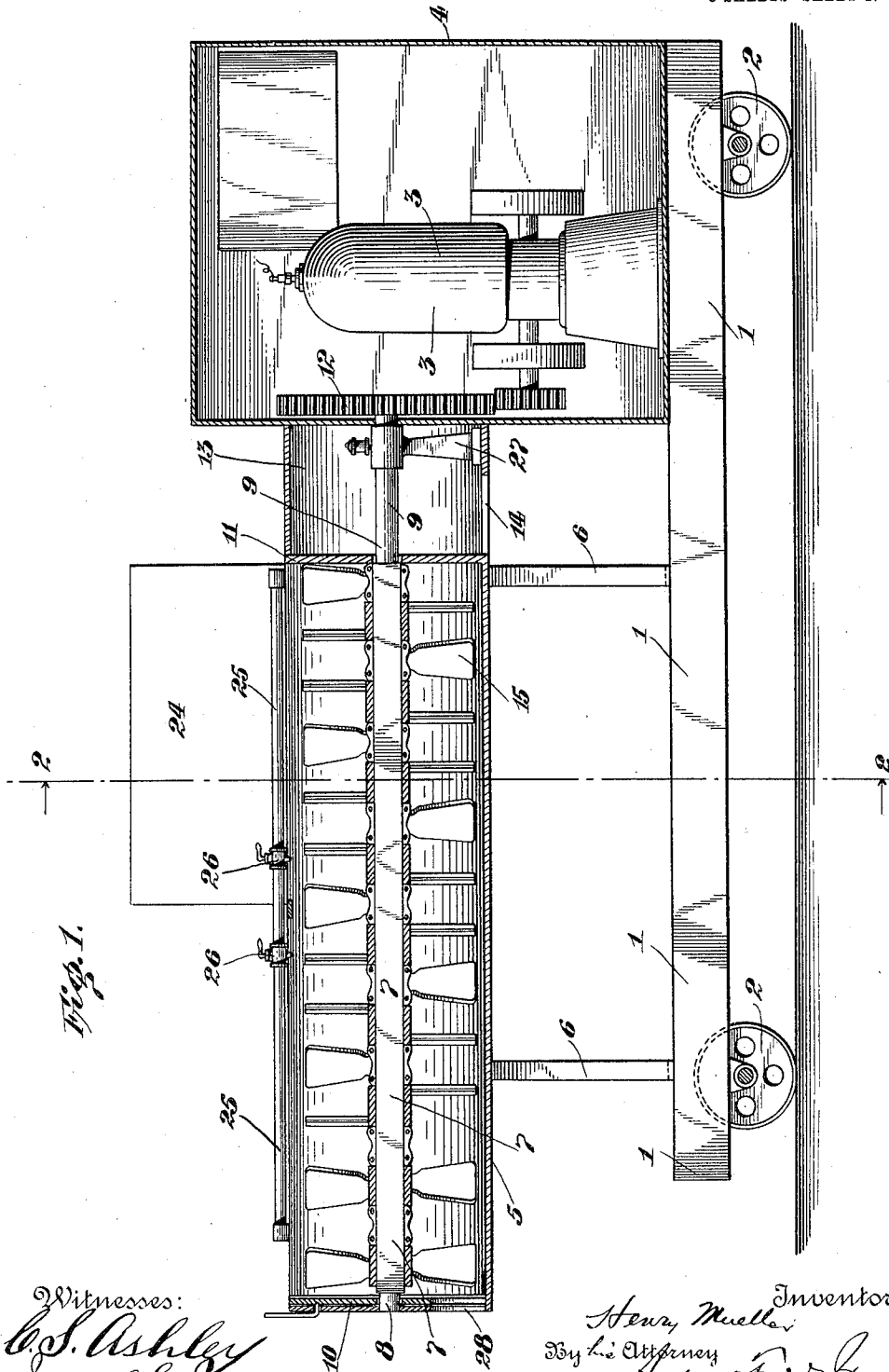
H. MUELLER.
MIXING MACHINE.

APPLICATION FILED JAN. 27, 1911.

1,036,683.

Patented Aug. 27, 1912.

3 SHEETS—SHEET 1.



Witnesses:
C. S. Ashley
Justin P. Galland

Inventor
Henry Mueller
By *his Attorney*
Andrew F. Fiedler

H. MUELLER.
MIXING MACHINE.

APPLICATION FILED JAN. 27, 1911.

1,036,683.

Patented Aug. 27, 1912.

3 SHEETS—SHEET 2.

Fig. 3.

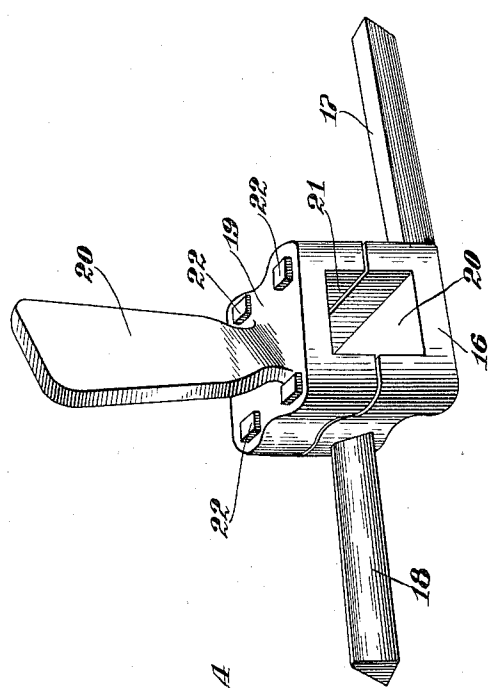
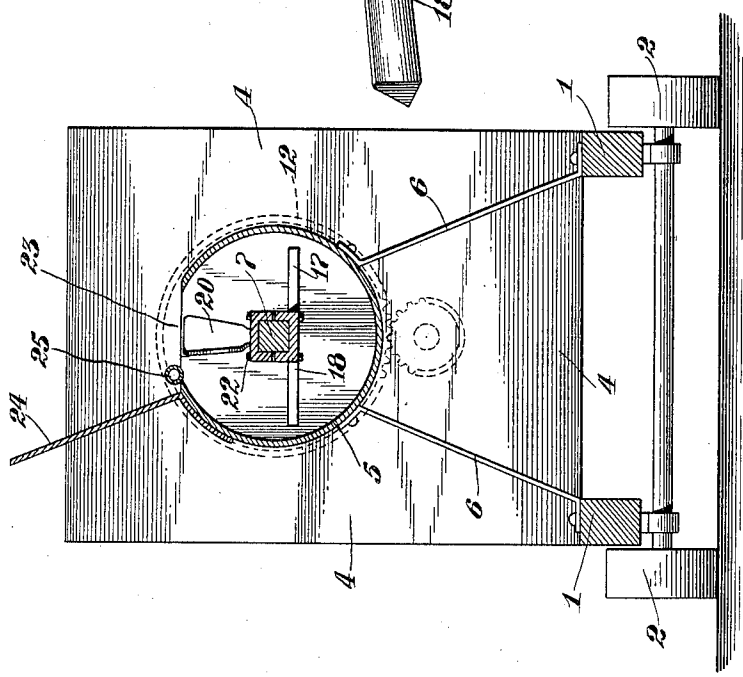


Fig. 2.



Witnesses:
C. S. Ashley
Justin P. Gulland

Inventor
Henry Mueller
By his Attorney
Andrew Fries

H. MUELLER.
MIXING MACHINE.
APPLICATION FILED JAN. 27, 1911.

1,036,683.

Patented Aug. 27, 1912.
3 SHEETS—SHEET 3.

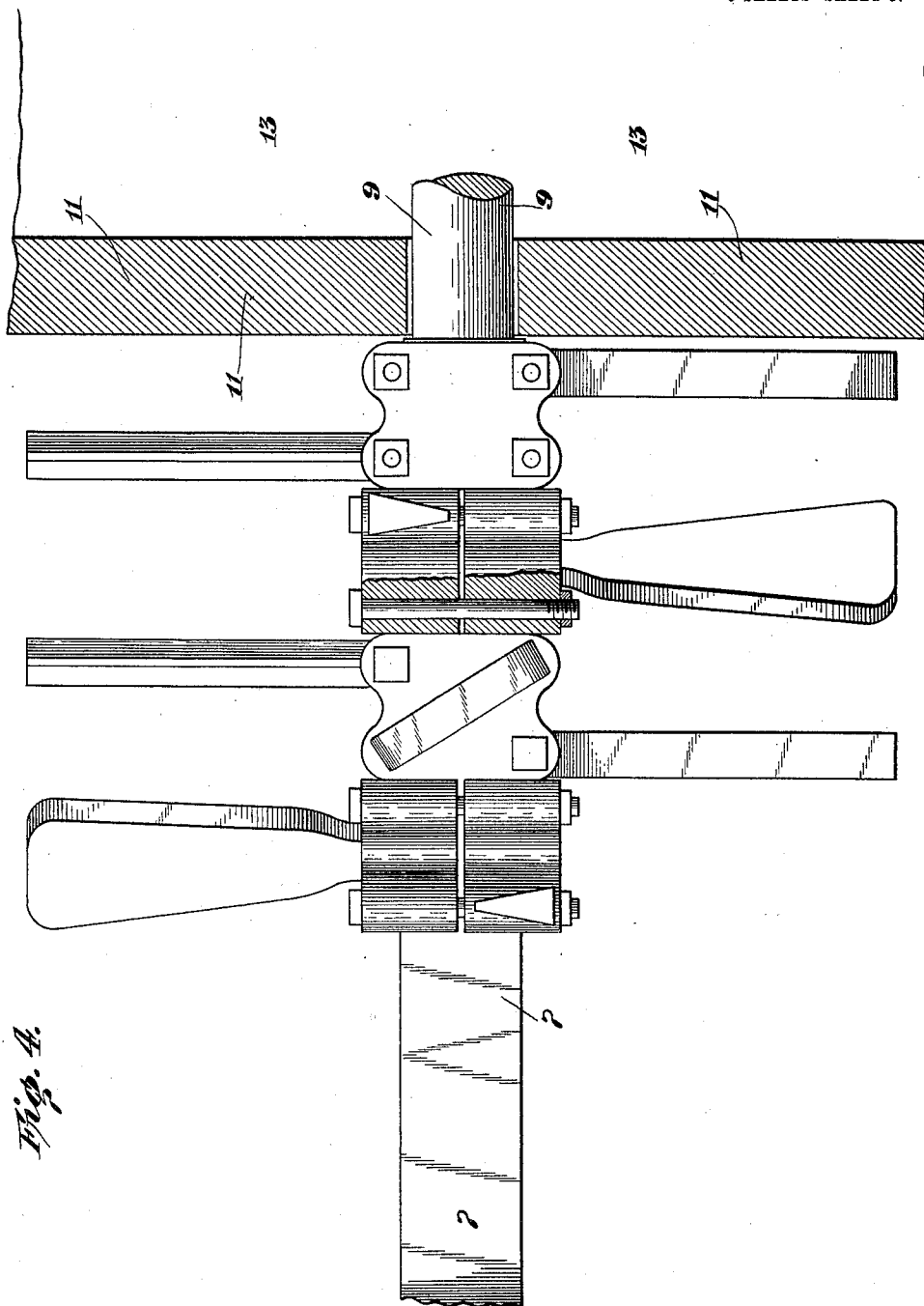


Fig. 4.

Witnesses:
C. S. Ashley
Justin P. Gallant

Henry Mueller Inventor
By his Attorney
Andrew F. Fiedler

UNITED STATES PATENT OFFICE.

HENRY MUELLER, OF NEW YORK, N. Y.

MIXING-MACHINE.

1,036,683.

Specification of Letters Patent.

Patented Aug. 27, 1912.

Application filed January 27, 1911. Serial No. 604,956.

To all whom it may concern:

Be it known that I, HENRY MUELLER, a citizen of the United States, and a resident of the city of New York, in the county of New York and State of New York, have invented a certain new and useful Mixing-Machine, of which the following is a specification.

My invention relates to improvements in mortar mixers and the object of my device is to provide a portable, effective and convenient device for mixing mortar, cement and similar materials. I accomplish this object by the device illustrated in the accompanying drawings, in which—

Figure 1 is a longitudinal section of the device. Fig. 2 is a cross section of the same on the line 2—2 in Fig. 1. Fig. 3 is a view of the mixing member. Fig. 4 is a detail of the paddle and adjacent parts assembled.

Similar characters refer to similar parts throughout the several views.

My device is preferably mounted on a platform 1, provided with wheels or rollers 2 2. Upon the platform at the rear thereof, I provide an engine 3 preferably inclosed in the housing 4. I also provide a mixing chamber 5, preferably mounted on standards 6 6 upon the platform 1. Within the mixing chamber 5 I provide a longitudinal rectangular shaft 7 suitably journaled at its ends 8 and 9 in the end pieces 10 and 11 respectively of the mixing chamber 5. The shaft 7 is provided with a suitable gear 12 through which it is rotated by power derived from the engine 3. Between the mixing chamber 5 and the engine housing 4 I provide an intermediate chamber 13 having an opening or aperture 14 in its base. Upon the shaft 7, I provide a plurality of mixing members 15, which are preferably constructed of two parts bolted together. This improved mixing member comprises a section 16 provided with two wing members 17 and 18, wedge shaped in cross section, projecting laterally therefrom at opposite sides, and an upper section 19 provided with a vertical paddle 20 placed diagonally thereon, so that the wing members and paddle will

lie at right angles to each other. The bases 50 or parts 16 and 17 are each provided with rectangular seats 20 and 21 and are secured together by means of bolts 22 22 22 passed therethrough, so that the two rectangular seats 20 and 21 of the parts will fit upon the rectangular shaft 7. These mixing members are secured upon the shaft 7 in such manner that the paddle 20 of each four adjacent mixing members will be staggered or project from alternate sides of the shaft 7. At one end of the mixing chamber 5 upon the upper side thereof, I provide a receiving port 23 and a wing or shield 24 at the side thereof. If desired a water supply pipe 25 may also be provided upon the upper side of the mixing chamber 5, with cocks 26 26 at suitable intervals to permit the discharge of water into the mass.

My device being thus assembled, the mass of mortar, cement or other material to be mixed is delivered into the mixing chamber 5 through the reception port 23 and the shaft 7 is rotated by power derived from the engine 3 through the gear 12. The mixing members 15, rotating with the shaft 7, will stir and cut up the mass, the paddle 20 serving to stir or agitate, and the wings 17 and 18 serving to cut up the same. The material being mixed which may creep along the shaft from the mixing chamber is prevented from entering the engine housing by means of a journal bearing 27 which will serve to scrape off any of the material which thereupon falls through the aperture 14 in the chamber 13, and is thus prevented from doing any injury to the parts. The mortar or cement being mixed, in addition to the stirring by the mixing members 15, will, by reason of the diagonal arrangement of the paddles 20, be pushed or driven along the mixing chamber 5 to the discharge port 28 in the end of the mixing chamber 5 where it will be delivered for use.

Having thus described my invention what I claim is—

In a mixing machine a mixing member comprising two sections, one of said sections being provided with two wing members each

wedge shaped in cross section projecting laterally therefrom at opposite sides, and the other section being provided with a vertical paddle placed diagonally thereon and set at right angles to the wing members of the other section.

Signed at the city of New York in the

county of New York and State of New York this 25th day of January A. D. 1911.

HENRY MUELLER.

Witnesses:

SAMPSON H. SCHWARZ,

JUSTIN S. GALLAND.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."