

July 21 1925.

1,546,791

J. W. PAGE,
SCRAPER BUCKET

Filed Aug. 21, 1924

2 Sheets-Sheet 1

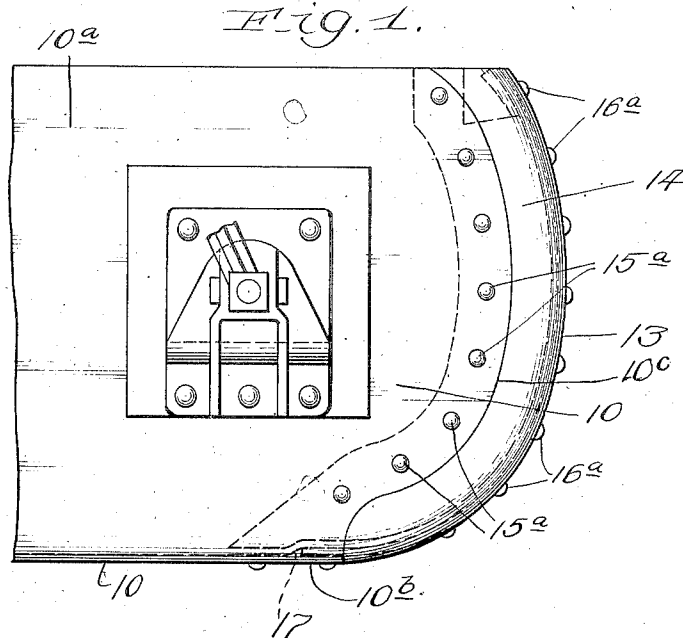


Fig. 2.

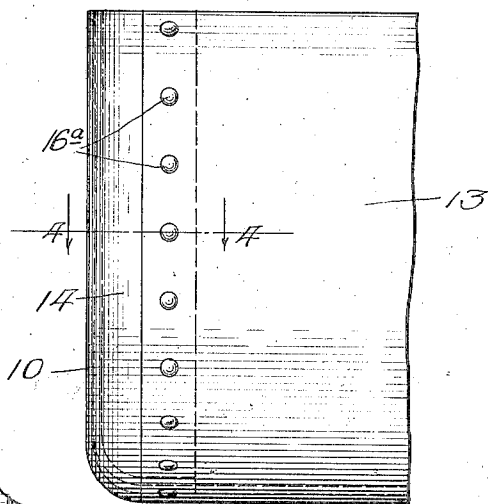


Fig. 3.

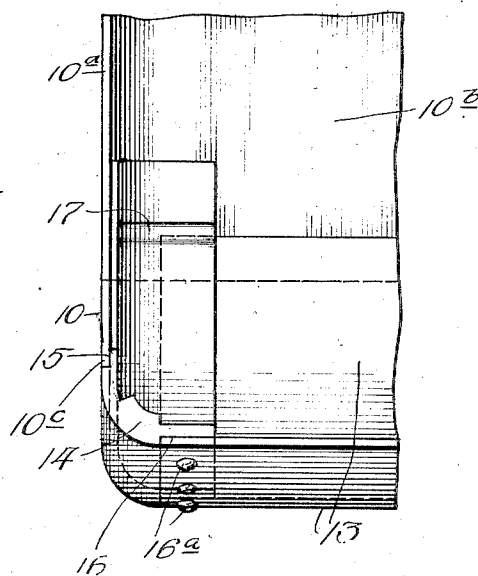
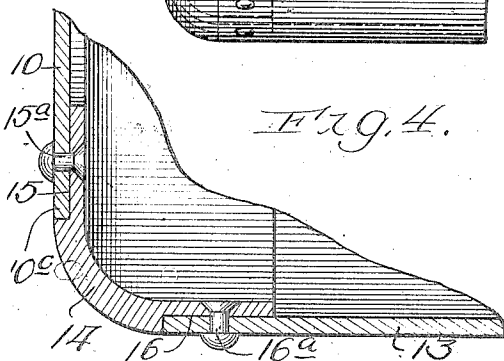


Fig. 4.



Inventor:
John W. Page,
By *Dyersforth Lee Christen, Atty.*

July 21 1925.

1,546,791

J. W. PAGE

SCRAPER BUCKET

Filed Aug. 21, 1924

2 Sheets-Sheet 2

Fig. 5.

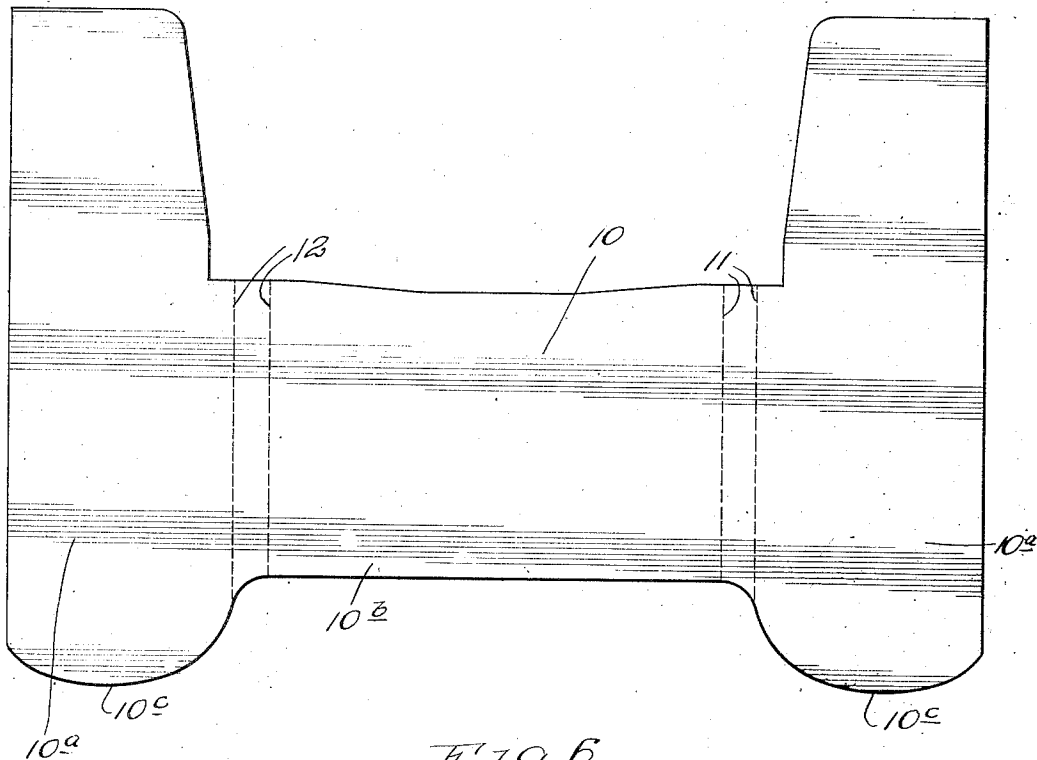
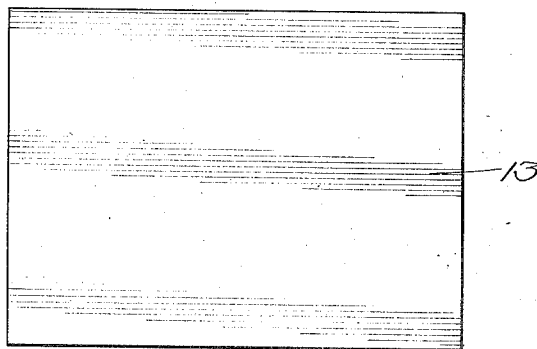


Fig. 6.



Inventor
John W. Page,
By Dyerforth, Lee, Chittin, Miles,
Attys

UNITED STATES PATENT OFFICE.

JOHN W. PAGE, OF CHICAGO, ILLINOIS.

SCRAPER BUCKET.

Application filed August 21, 1924. Serial No. 733,340.

To all whom it may concern:

Be it known that I, JOHN W. PAGE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Scraper Buckets, of which the following is a specification.

This invention relates to improvements in scraper buckets. By the use of my invention, a scraper bucket may be made more easily and cheaply than in the case of buckets heretofore known. My improved bucket is also strong and rugged. By the use of my invention, a scraper bucket may be made without the necessity of considerable stretching, forming, and curving of plates. The bucket is formed from flat sheets cut to the requisite shape and then bent in simple curves. Cast iron members form the rear corners of the bucket and serve to join the edges of the plates so that very little bending or curving of the plates is required. The details of this construction, and other advantages and features of my invention, will appear more fully as I proceed with my specification.

This invention relates to that class of scraper buckets which receive the load by being drawn substantially horizontally over or through the material which is scooped up. The bucket is substantially cubical in shape but, of course, may be elongated or of such proportions as desired. Ordinarily, the bucket has a back, two sides, and a bottom, the front and top of the bucket being left open.

In that form of device embodying the features of my invention shown in the accompanying drawings, Fig. 1 is a view in side elevation of the back corner of a scraper bucket, Fig. 2 is a similar view in rear elevation, Fig. 3 is a top plan view of the same, Fig. 4 is a view as indicated by the line 4-4 of Fig. 2, Fig. 5 is a view of the piece of sheet metal used to form the sides and bottom of the bucket showing the shape of said metal as it lies out flat before being bent to position, and Fig. 6 is a similar view of the piece of sheet metal used to form the back of the shovel.

As shown in the drawings, 10 indicates the piece of sheet metal used to form the sides and bottom of the shovel. The metal piece 10 is bent or curved (but not sharply)

along or near the lines 11 and 12 respectively by bending the end sections 10^a upwardly into a vertical position. The end portions 10^a of the piece form the sides of the bucket and the center portion 10^b forms the bottom thereof. The back of the bucket is formed by curving the piece of sheet metal 13 as shown in Fig. 1.

When the sheet metal pieces 10 and 13 are bent and formed as shown, the portions 10^a, 10^a of the piece 10 will form the sides of the bucket, the portions 10^b will form the bottom of the bucket and the plate 13 will form the back of the bucket. It is to be noted that the rear ends of the sides 10^a, 10^a are curved with substantially the same curvature as the back piece 13. When the plates are placed in position, the rear curved edges 10^c of the sides 10^a will not meet the edges of the back piece 13. The spaces thus left are filled by two curved cast iron corner pieces 14 which form the back corners of the bucket. Since these corner pieces are similar in construction, I will describe in detail but one. The corner piece, as indicated by 14, is curved to conform to the curvature of the rear end of the side piece 10^a, and likewise the corner piece is curved in cross-section as clearly shown in Fig. 4. Each edge of the corner piece 14 is rabbeted on its outer surface as indicated by 15 and 16, 15 indicating the rabbet on the side, and 16 the rabbet on the back. These rabbets 15 and 16 are deep enough to accommodate the thickness of the sheet metal used in forming the sides and back of the shovel. The rear curved edge 10^c of the side piece 10 is placed in the rabbet 15 and held in position by the rivets 15^a. Likewise the edge of the curved plate 13 forming the back of the shovel lies in the rabbet 16 and is held in place by the rivets 16^a.

The lower end of each of the cast corner pieces 14 is slightly offset on its lower surface as indicated by 17 in order to permit the lower edge of the backplate 13 to overlap the bottom plate 10^b as shown.

While I have shown and described certain embodiments of my invention, it is to be understood that it is capable of many modifications. Changes, therefore, in the construction and arrangement may be made without departing from the spirit and scope of the invention as disclosed in the appended

claims, in which it is my intention to claim all novelty inherent in my invention as broadly as possible in view of the prior art.

What I claim as new and desire to secure by Letters Patent, is:

1. A scraper bucket of the class described comprising a single piece of sheet metal bent to form the bottom and sides of the bucket, a second piece of sheet metal forming the back of the bucket, and two members forming the rear corners of the bucket, the rear edge of the side of the bucket and the edge of the back of the bucket at each corner being separated from each other and joined to one of said corner members.

2. A scraper bucket of the class described comprising a single piece of sheet metal bent to form the bottom and sides of the bucket, a second piece of sheet metal forming the back of the bucket, and two cast members forming the rear corners of the bucket, the rear edge of the side of the bucket and the edge of the back of the bucket at each corner being separated from each other and joined to one of said corner members.

3. A scraper bucket of the class described comprising a single piece of sheet metal bent to form the bottom and sides of the bucket, the rear edges of the sides being curved, a second piece of sheet metal curved to form the back of the bucket, and two curved members forming the rear corners of the bucket, the rear edge of the side of the bucket and the edge of the back of the bucket at each corner being separated from each other and joined to one of said corner pieces.

4. A scraper bucket of the class described comprising a single piece of sheet metal bent to form the bottom and sides of the bucket, the rear edges of the sides being curved, a second piece of sheet metal curved to form the back of the bucket, and two cast curved members forming the rear corners of the bucket, the rear edge of the side of the bucket and the edge of the back of the bucket at each corner being separated from each other and joined to one of said corner pieces.

5. A scraper bucket of the class described comprising a single piece of sheet metal bent to form the bottom and sides of the bucket, a second piece of sheet metal forming the back of the bucket, and two members forming the rear corners of the bucket, the rear edge of the side of the bucket and the edge of the back of the bucket at each corner being separated from each other and joined to one of said corner members, said corner members being provided with rabbets adapted to accommodate the edges of the sides and back of the bucket.

6. A scraper bucket of the class described comprising a single piece of sheet metal bent

to form the bottom and sides of the bucket, a second piece of sheet metal forming the back of the bucket, and two cast members forming the rear corners of the bucket, the rear edge of the side of the bucket and the edge of the back of the bucket at each corner being separated from each other and joined to one of said corner members, said corner members being provided with rabbets adapted to accommodate the edges of the sides and back of the bucket.

7. A scraper bucket of the class described comprising a single piece of sheet metal bent to form the bottom and sides of the bucket, the rear edges of the sides being curved, a second piece of sheet metal curved to form the back of the bucket, and two curved members forming the rear corners of the bucket, the rear edge of the side of the bucket and the edge of the back of the bucket at each corner being separated from each other and joined to one of said corner pieces, said corner members being provided with rabbets adapted to accommodate the edges of the sides and back of the bucket.

8. A scraper bucket of the class described comprising a single piece of sheet metal bent to form the bottom and sides of the bucket, the rear edges of the sides being curved, a second piece of sheet metal curved to form the back of the bucket, and two cast curved members forming the rear corners of the bucket, the rear edge of the side of the bucket and the edge of the back of the bucket at each corner being separated from each other and joined to one of said corner pieces, said corner members being provided with rabbets adapted to accommodate the edges of the sides and back of the bucket.

9. A bucket of the class described having sheet metal sides and a sheet metal back with separate closing corner pieces joining the rear edges of the sides to the edges of the back.

10. A bucket of the class described having sheet metal sides, a sheet metal bottom, and a sheet metal back, and provided with separate closing corner pieces joining the rear edges of the sides to the edges of the back.

11. A bucket of the class described having sheet metal sides, a sheet metal bottom, and a sheet metal back, and provided with separate closing corner pieces joining the rear edges of the sides to the edges of the back, the lower edge of the back overlapping the rear edge of the bottom of the bucket.

12. A bucket of the class described having sheet metal sides and a sheet metal back with separate rigid closing corner pieces joining the rear edges of the sides to the edges of the back.

13. A bucket of the class described hav-

ing sheet metal sides with curved rear edges, a curved sheet metal back, and curved closing corner pieces joining the rear edges of the sides to the edges of the back.

the sides to the edges of the back, said corner pieces being provided with rabbets adapted to accommodate the edges of the sides and the back. 10

5 14. A bucket of the class described having sheet metal sides with curved rear edges, a curved sheet metal back, and curved closing corner pieces joining the rear edges of

Witness, my hand this 19 day of August, 1924.

JOHN W. PAGE.