J. S. JOBE, J. DIXON, AND A. E. ARROTT.

METHOD OF AND APPARATUS FOR COATING CASTINGS.

APPLICATION FILED JAN. 30, 1920.

1,412,057.

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3 SHEETS—SHEET 1. Inventors

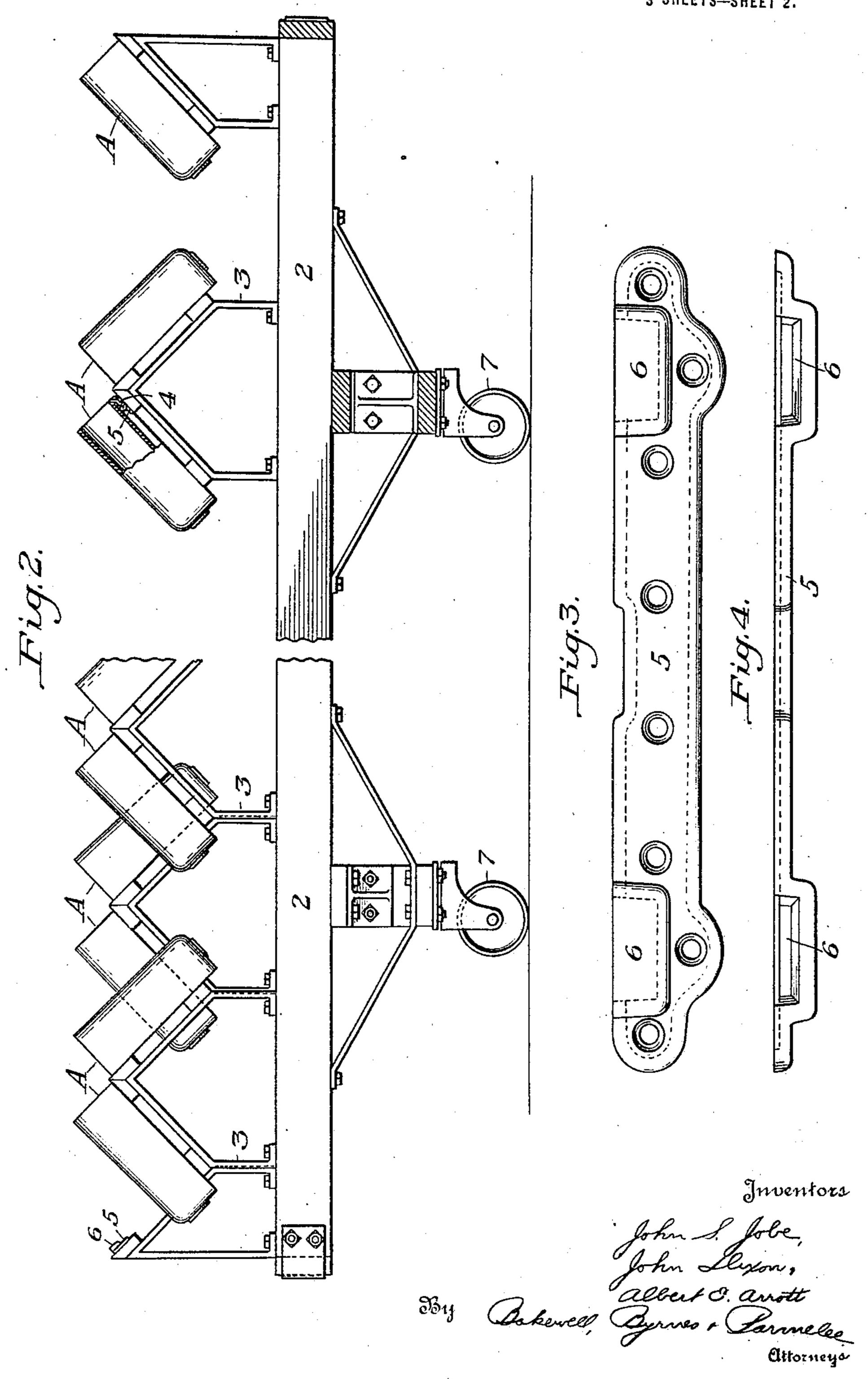
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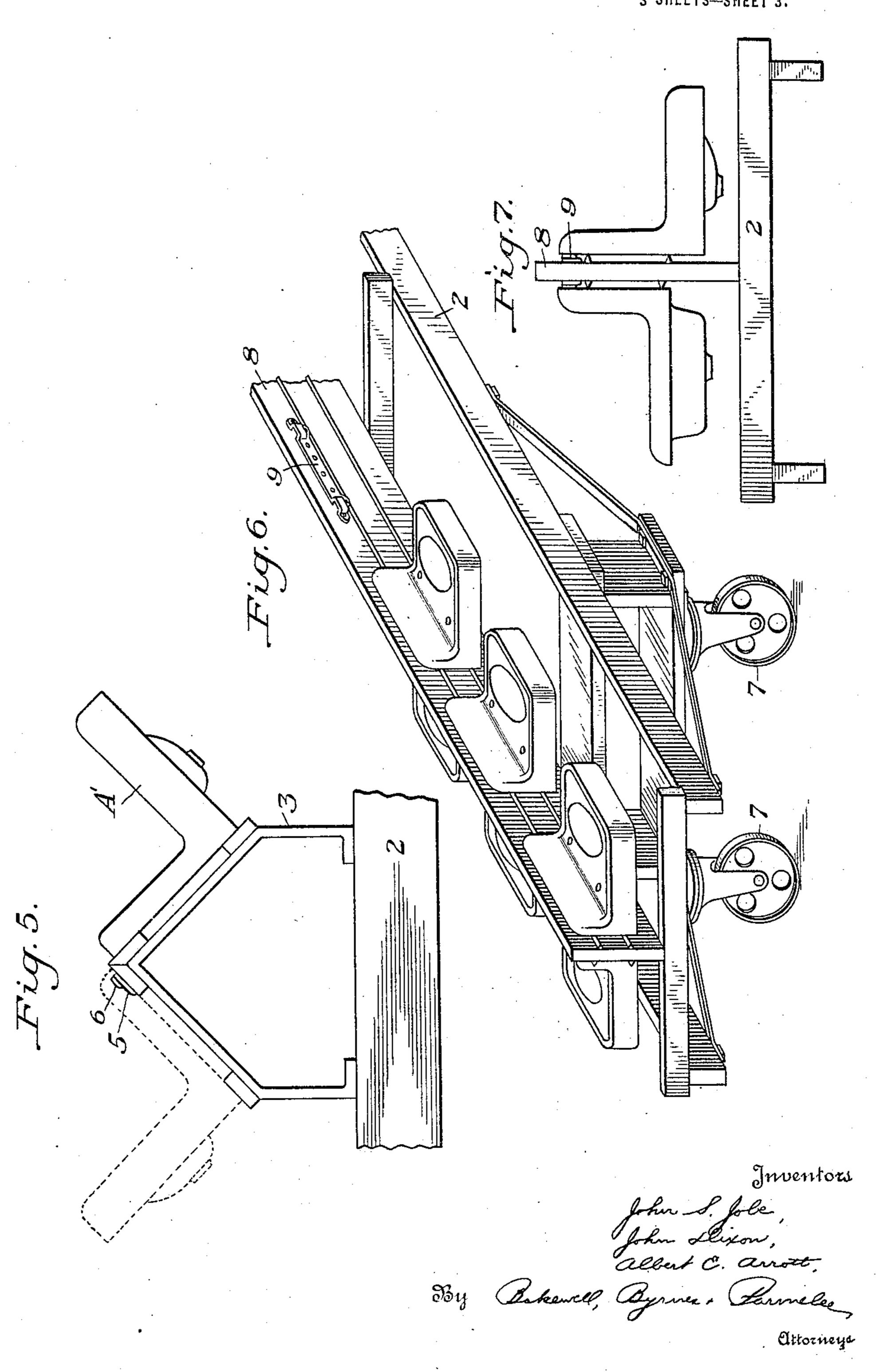
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UNITED STATES PATENT OFFICE.

JOHN S. JOBE, OF ROCHESTER, JOHN DIXON, OF MONACA, AND ALBERT E. ARROTT, OF PITTSBURGH, PENNSYLVANIA, ASSIGNORS TO UNITED STATES SANITARY MANU-FACTURING COMPANY, OF PITTSBURGH, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

METHOD OF AND APPARATUS FOR COATING CASTINGS.

1,412,057.

Specification of Letters Patent. Patented Apr. 11, 1922.

Application filed January 30, 1920. Serial No. 355,231.

DIXON, and Albert E. Arrott, all citizens time and thus greatly increase the output. 55 of the United States, residing, respectively, The nature of our invention will be best 5 at Rochester, Beaver County, Pennsylvania, understood by reference to the accompany-Pittsburgh, Allegheny County, Pennsyl- in which we have shown preferred embodivania, have invented a new and useful Im- ments thereof, it being premised, however, 60 provement in Methods of and Apparatus for that the apparatus employed may be varied 10 Coating Castings, of which the following is within the spirit and scope of the invention a full, clear, and exact description, refer- as defined in the appended claims. ence being had to the accompanying draw- In these drawings the numeral 2 desigwhich—

tion.

line II—II of Figure 1.

the supporting devices.

shown in Figure 6.

Our invention has relation to a method of 30 and apparatus for use in the coating of castings. The invention has been particularly designed for use in connection with the manufacture of enameled metal flushtank bodies, lavatories, sinks, etc., and is de-35 signed to provide a method and means by which the time and labor involved in the coating operations are greatly reduced.

40 been brought from the cleaing room to the engagement with the hooks. The cleats can 45 over so that the remaining surfaces to be side thereof, in the inclined positions as coated can be reached and coated. The cast-shown in the drawings. ings are heavy and this work has been very In operation the castings, after being ⁵⁰ work. By the use of our invention the op-trucks are then carried to the coating room.

To all whom it may concern: ing the castings. We also provide for han-Be it known that we. John S. Jobe, John dling a plurality of castings at the same

Monaca, Beaver County, Pennsylvania, and ing drawings which will now be described

ings, forming part of this specification, in nates a suitable support, preferably in the 65 form of a wheeled truck which can be read-Figure 1 is a plan view partly broken ily moved from place to place. On this away of apparatus embodying our inventruck are a plurality of supports 3 extending transversely of the truck and of gen-Figure 2 is a sectional elevation on the erally triangular form. In Figures 1 and 2 70 we have shown two sets of these supports Figures 3 and 4 are detail views of one of extending parallel with each other longitudinally of the truck, the supports on the Figure 5 is an end elevation of a portion two sets being staggered with respect to of the apparatus and showing its use for each other, but it will be understood that 75 supporting a different article, and this arrangement may be varied as may be Figure 6 is a perspective view showing a desired and that a greater or less number different form of apparatus, and of the supports may be employed, arranged Figure 7 is an end view of the device upon the truck in various ways.

Each one of the supports (except the end 80 ones, which are of single form) is provided with suitable means for supporting thereon two of the castings A which are to be coated. In Figures 1 and 2 we have illustrated the coating of cast flush tank bodies which are 85 provided with hooks 4, such, for instance, as are shown in the Shaffer Patent No. 1,261,446, dated April 2, 1918. To receive these hooks each side of each support is pro-Heretofore, in applying first coatings to vided near the top with a transversely ex- 90 articles of this character, the castings have tending plate or cleat 5 having sockets 6 for coating room. They are then placed on end be of the same pattern as those used for supin position to enable a portion of their sur- porting the tanks when they are installed. faces to be coated by the use of an air brush In this manner two of the castings can be 95 or "gun." The castings are then turned held on each of the supports 3, one on each

hard upon the operator, and it has been dif- cleaned in the cleaning room are placed on 100 ficult to obtain operators to perform the the trucks in the positions shown and the erator who does the coating is relieved en- To facilitate moving the trucks, they may tirely from all work in connection with lift- be provided with castor wheels 7. It will

exterior surfaces of the articles to be coated and sinks may be engaged, as shown. are exposed so that both surfaces may be We claim: coated without in any way lifting or han- 1. The herein described method of coatthe interior of each casting and then the ex- and interior surfaces to be coated and pro-10 ovens.

require coating exposed.

20 The castings are sufficiently spaced on the substantially as described. supports so that the operator can readily 2. Apparatus of the character described,

ticular form of supports can be widely rality of castings in spaced apart positions, varied, the essential thing being that they substantially as described. shall be provided with means whereby the 3. Apparatus of the character described, 30 without necessity for handling them during supporting member thereon, said member 75 character so that they can be moved from tions thereon, substantially as described. place to place with the articles thereon pre- 4. Apparatus of the character described, 35 paratory to and after coating. It is not es- comprising a movable support having a plu- 80 may be used in coating sinks and lavatories thereon, substantially as described. 40 which do not require to be coated on the In testimony whereof, we have hereunto 65 back and underside. In this figure, 8 desig- set our hands. nates a supporting member extending longitudinally of the truck, and having supporting cleats 9 on opposite sides, similar 45 to the cleats 5 before described and with

readily be seen that both the interior and which the usual back hooks on the lavatories

5 dling the castings. The operator with the ing castings, such as flush-tank bodies, sinks, 50 usual air brush or "slush gun" first coats lavatories, and the like, having both exterior terior. The trucks with the coated castings vided with means for supporting them in thereon can then be taken to the baking use, comprising placing a plurality of the castings to be coated upon a movable sup- 55 In Figure 5 we have shown how lava- port having means for cooperation with the tories may be placed on the same supports means on the castings to hold said castings for coating, with all surfaces thereof which in position on the support in substantially the manner in which they are supported in By reason of our invention the operator use and with both the exterior and interior 60 who does the coating is entirely relieved of surfaces to be coated exposed and accessible all work of handling the castings. This not for the coating operations, and coating such only makes his work much easier, but surfaces while so supported and without greatly increases the output of the factory. changing their positions during coating,

reach them with his brush, this also being comprising a supporting member having a facilitated by the staggered arrangement plurality of supports thereon, each of said of the two sets of supports.

supports having a plurality of supporting It will be readily understood that the par-members thereon arranged to support a plu-70

castings can be held in position to be coated comprising a movable support having a the coating operation. It is also preferred having means for engaging and holding a that the supports shall be of a portable plurality of castings in spaced apart posi-

sential that all articles shall be held in in-rality of supporting members thereon, each clined positions. For instance, in Figures of said members having means for engag-6 and 7 we have shown a support which ing and supporting a plurality of castings

JOHN S. JOBE. JOHN DIXON. ALBERT E. ARROTT.