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PATENTED SEPT. 8, 1908.

J. BUTLER.  
SCRAPER.

APPLICATION FILED JAN. 23, 1908.

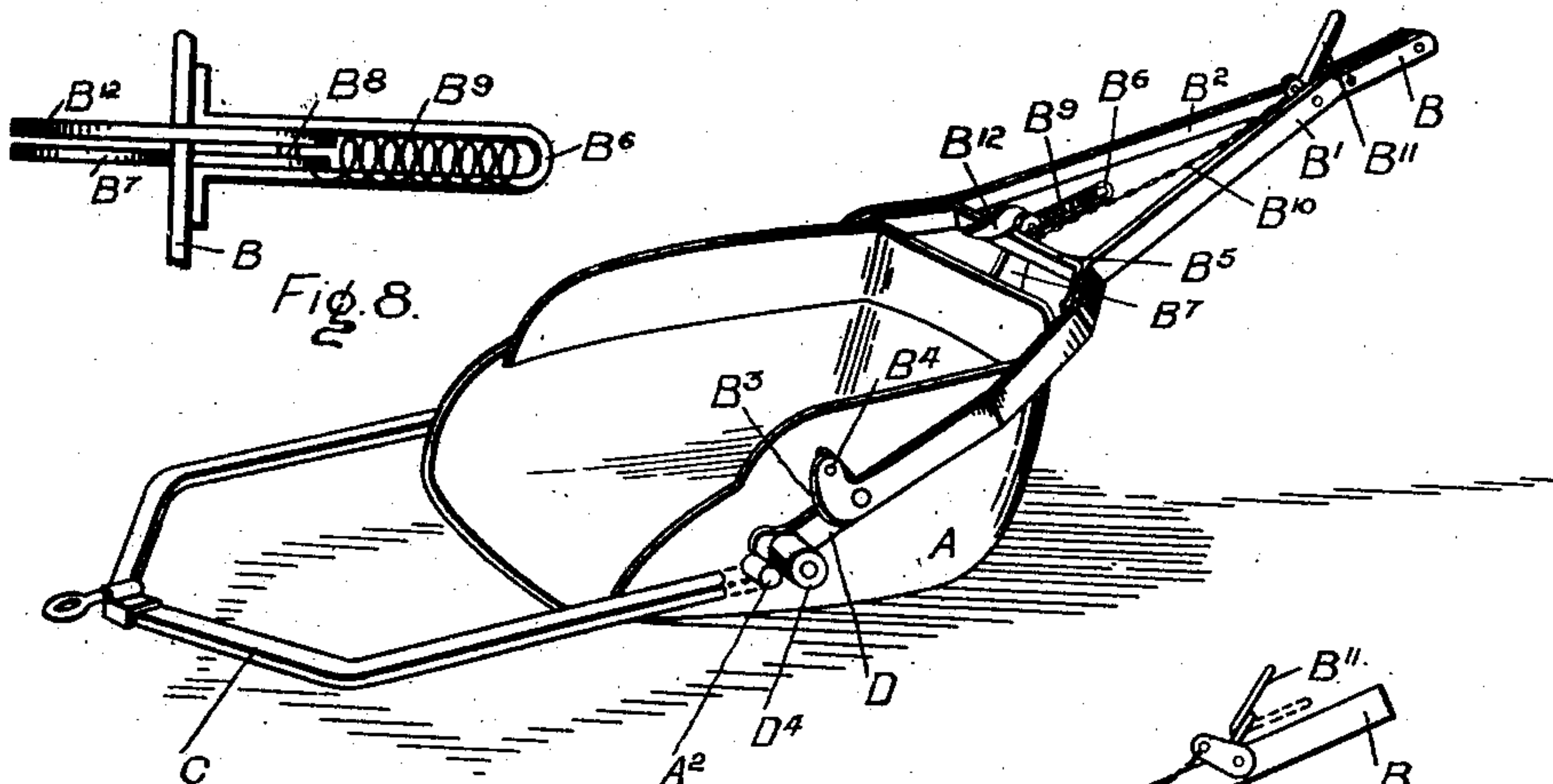


Fig. 1.

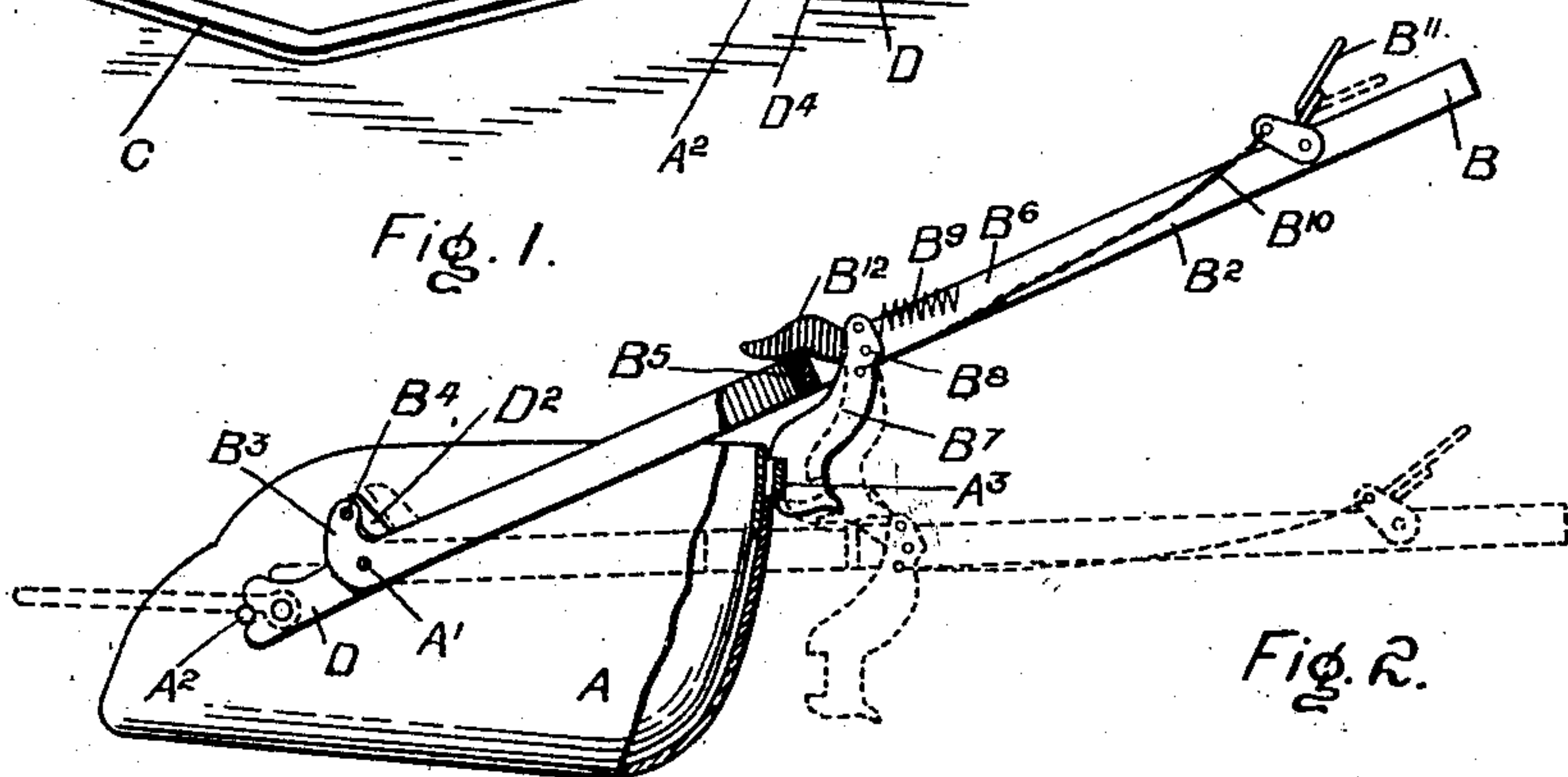


Fig. 2.

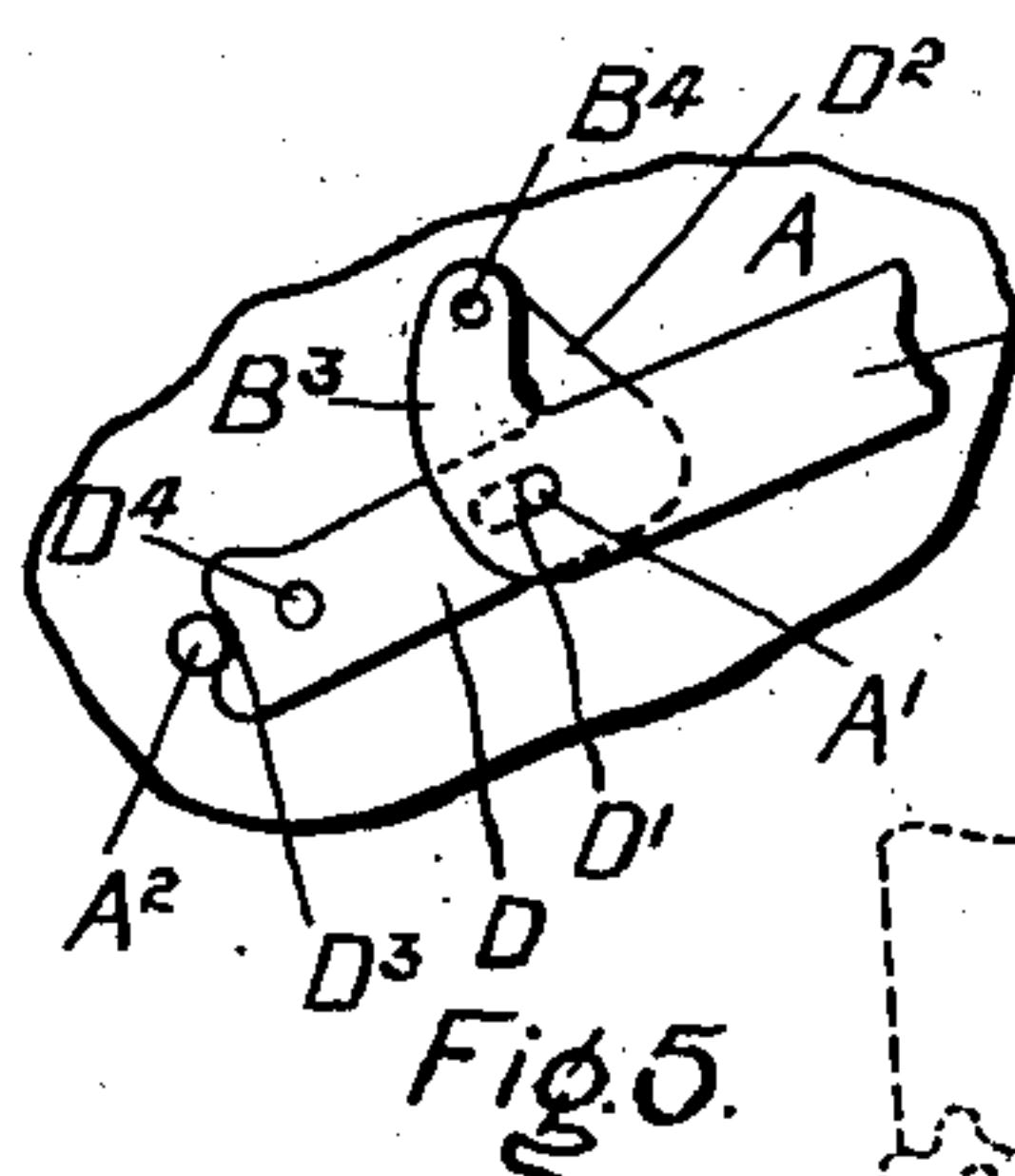


Fig. 3.

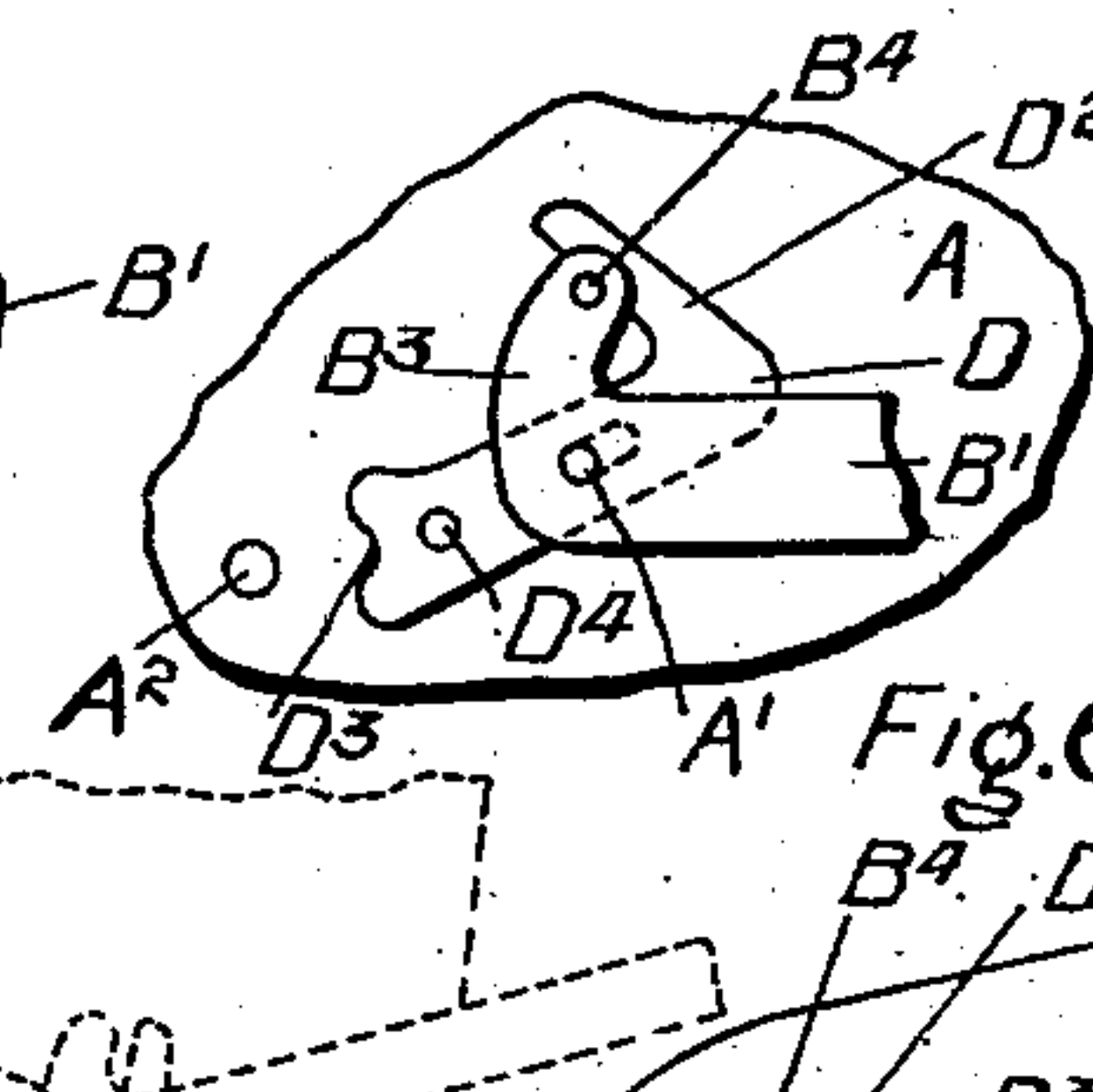


Fig. 4.

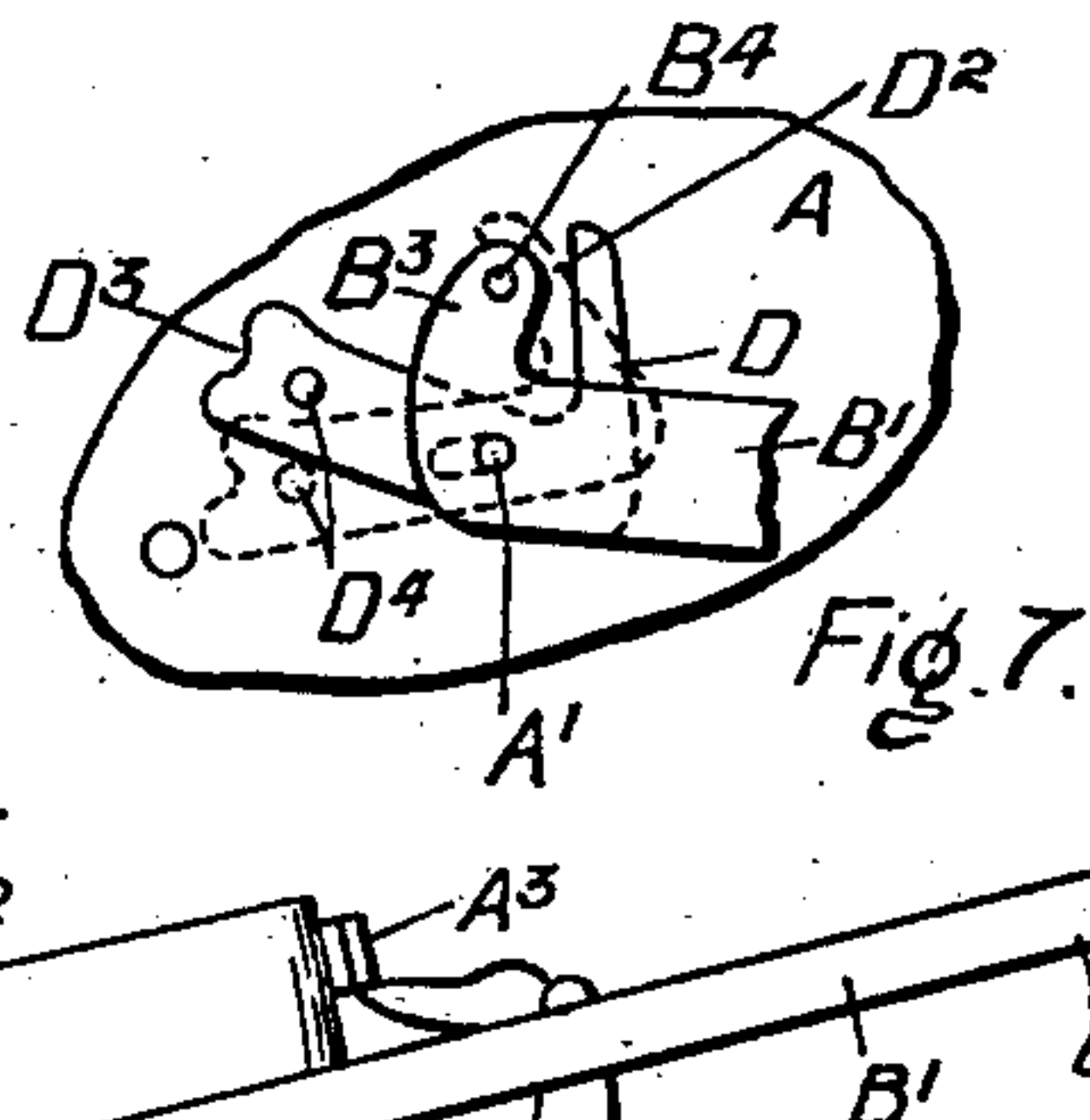


Fig. 5.

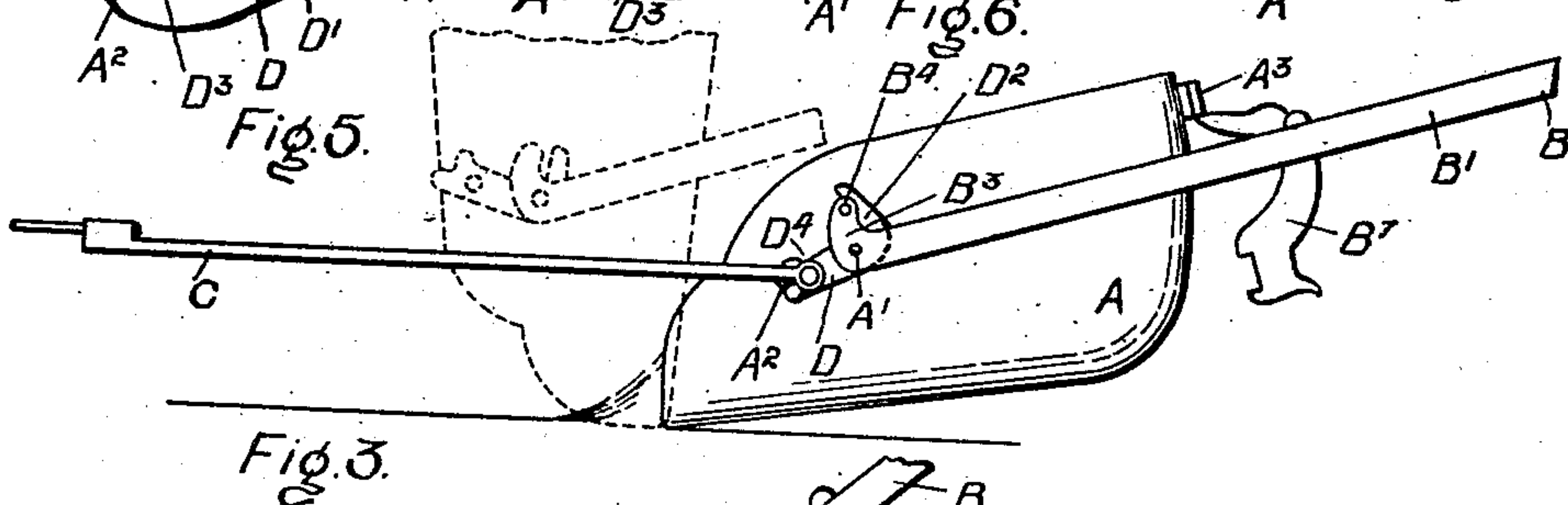


Fig. 6.

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# UNITED STATES PATENT OFFICE.

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## SCRAPER.

No. 898,183.

Specification of Letters Patent.

Patented Sept. 8, 1908.

Application filed January 23, 1908. Serial No. 412,305.

*To all whom it may concern:*

Be it known that I, JAMES BUTLER, a citizen of the United States, of the city of St. Catharines, in the county of Lincoln, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Scrapers, of which the following is the specification.

My invention relates to improvements in revolving drag scrapers and the object of the invention is to simplify and cheapen the construction of that form of drag scraper which may be dumped, and restored to its operative position without the driver having to exert any appreciable force in dumping as covered by my Patent No. 841929, granted January 22, 1907, in the United States of America, and No. 100,514, granted August 21, 1906, in the Dominion of Canada and it consists essentially of a scraper body, two pins extending from each side thereof, one pin extending centrally from each side, and the other pin extending from each side of the scraper in proximity to the mouth thereof, a handle having forked ends extending to each side of the scraper body and swung on the central pins extending therefrom and the members of the fork being provided with upturned ends, pins extending inwardly from the extremity of such ends, angle pieces having slots through which the central pins extend and jaw ends engaging normally with the pins in proximity to the mouth of the scraper, and provided with pins on which the bail of the scraper is swung, a cross bar extending between the members of the forked handle in proximity to the scraper body, an engaging piece on the back of the scraper body, a pivoted spring latch piece normally engaging therewith, and a pivoted catch piece pivoted to the rear of the cross bar and extending over the same to engage with the engaging piece on the back of the scraper body as hereinafter more particularly explained.

Figure 1 is a perspective view of my scraper. Fig. 2 is a side elevation partially broken away and in section to exhibit my construction. Fig. 3 is a similar view to Fig. 2 showing the scraper in position for dumping. Fig. 4 is a similar view to Figs. 2 and 3 showing the scraper in the dumped position. Figs. 5, 6, and 7 are detail views of the lower end of the forked handle and the engaging angle piece in the normal, dumping and dumped

positions. Fig. 8 is a plan detail of the spring held catch.

A is the body of the scraper provided with the pins A' and A<sup>2</sup>, the pin A' extending centrally from the side of the scraper and the pins A<sup>2</sup> extending from the side of the scraper in proximity to the mouth thereof.

It will be understood that there are pins A' and A<sup>2</sup> extending from both sides of the scraper. The scraper body is also provided with an engaging piece A<sup>3</sup> secured to the back thereof.

B is the scraper handle which branches off into two members B' and B<sup>2</sup> extending to each side of the scraper body and swung on the pins A'.

B<sup>3</sup> is an upturned portion extending at right angles from the end of the forked members of the handle.

B<sup>4</sup> is a pin extending inwardly from the portion B<sup>3</sup>.

B<sup>5</sup> is a cross bar extending between the forked members of the handle in close proximity to the back of the scraper body.

B<sup>6</sup> is a looped piece (see Fig. 8) extending rearwardly from the cross bar B<sup>5</sup>.

B<sup>7</sup> is a catch pivoted on the pin B<sup>8</sup> and designed to be normally held in engagement with the piece A<sup>3</sup> by means of the spring B<sup>9</sup>.

B<sup>10</sup> is a chain secured to the piece B<sup>7</sup> below the pivot pin B<sup>8</sup>.

B<sup>11</sup> is a grip lever to which the chain B<sup>10</sup> is attached and whereby the catch B<sup>7</sup> is released.

B<sup>12</sup> is an engaging piece swung on the pin B<sup>8</sup> and designed to engage with the piece A<sup>3</sup> to dump the scraper.

D is an angle piece having a slot D' (see Fig. 5) through which the pin A' extends. The pin B<sup>4</sup> normally engages the upper end of the member D<sup>2</sup> as shown particularly in Fig. 5. The angle piece D is provided with an end jaw D<sup>3</sup> normally engaging with the pin A<sup>2</sup> and a pin D<sup>4</sup> on which is swung the bail C of the scraper.

Having described the principal parts involved in my invention I shall briefly describe the operation of the same.

To dump the scraper I press on the lever B<sup>11</sup> so as to relieve the catch B<sup>7</sup> from the engaging piece A<sup>3</sup> and depress the handle B into the dotted position shown in Fig. 2. By this movement of the handle B the piece B<sup>12</sup> is brought into engagement with the piece A<sup>3</sup> on the scraper and is enabled to pass



beneath the same by swinging up on its pivot B<sup>8</sup>. When the handle B is sufficiently depressed the piece B<sup>12</sup> drops beneath the piece A<sup>3</sup> so as to engage with the underside upon the handle B being raised. By the same operation of the handle B the pin B<sup>4</sup> engaging with the member D<sup>2</sup> of the angle piece D carries such angle piece rearwardly into the position shown in Fig. 6 and away from the pin A<sup>2</sup>.

The scraper is now free to turn. The operator raises slightly on the handles B so as to give the edge of the scraper a purchase on the ground. The point of draft is moved thereby from the pin A<sup>2</sup> to the pin A' and the scraper is turned easily to dump and into the position shown in Fig. 4. When in this position the parts are so arranged that the catch B<sup>7</sup> engages the edge of the scraper. By lifting on the handle B the scraper may be easily restored to its normal position.

From this description it will be seen that I have devised a very simple arrangement and one which will not be liable to get out of order.

What I claim as my invention is:

1. In a scraper of the class described, the

combination with the scraper body, the handles pivoted to the side of the body and an engagement piece secured to the back of the scraper body, of a cross bar extending between the members of the handle and a catch piece pivoted to the back of the bar and extending over the same and engaging with the engagement piece as and for the purpose specified.

2. In a scraper of the class described, the combination with the scraper body, the forked handle pivoted to each side of the body and an engagement piece secured to the back of the scraper body, of a cross bar extending between the members of the handle, an open bracket frame secured to the back of the cross bar, a catch pivoted therein, a spiral spring connecting the catch above its pivot point to the back of the bracket, a lever handle pivoted in the crotch of the forked handle and a chain connecting the lever handle with the pivoted catch as and for the purpose specified.

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