July 28, 1925. 1,547,290

R. H. BEAUMONT

STORAGE PLANT FOR COAL AND THE LIKE

Filed Nov. 15, 1923 2 Sheets-Sheet 1

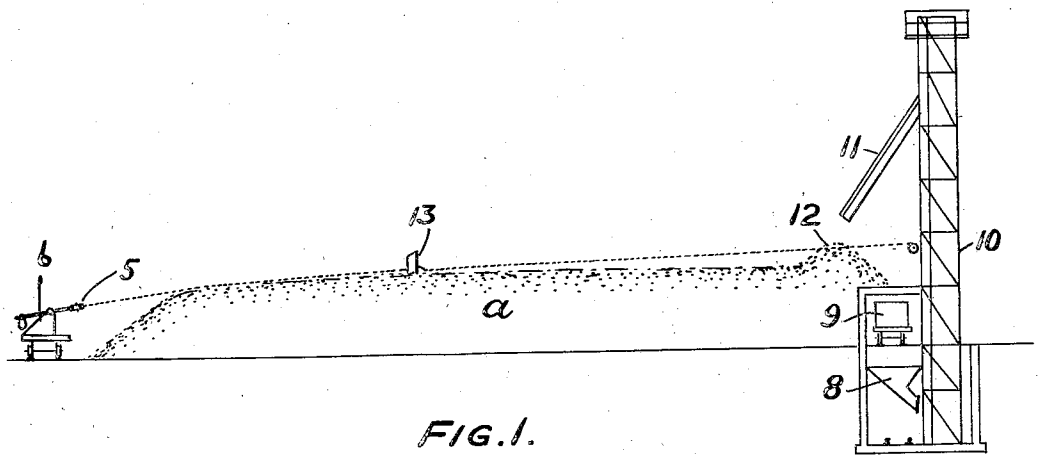


FIG. 1.

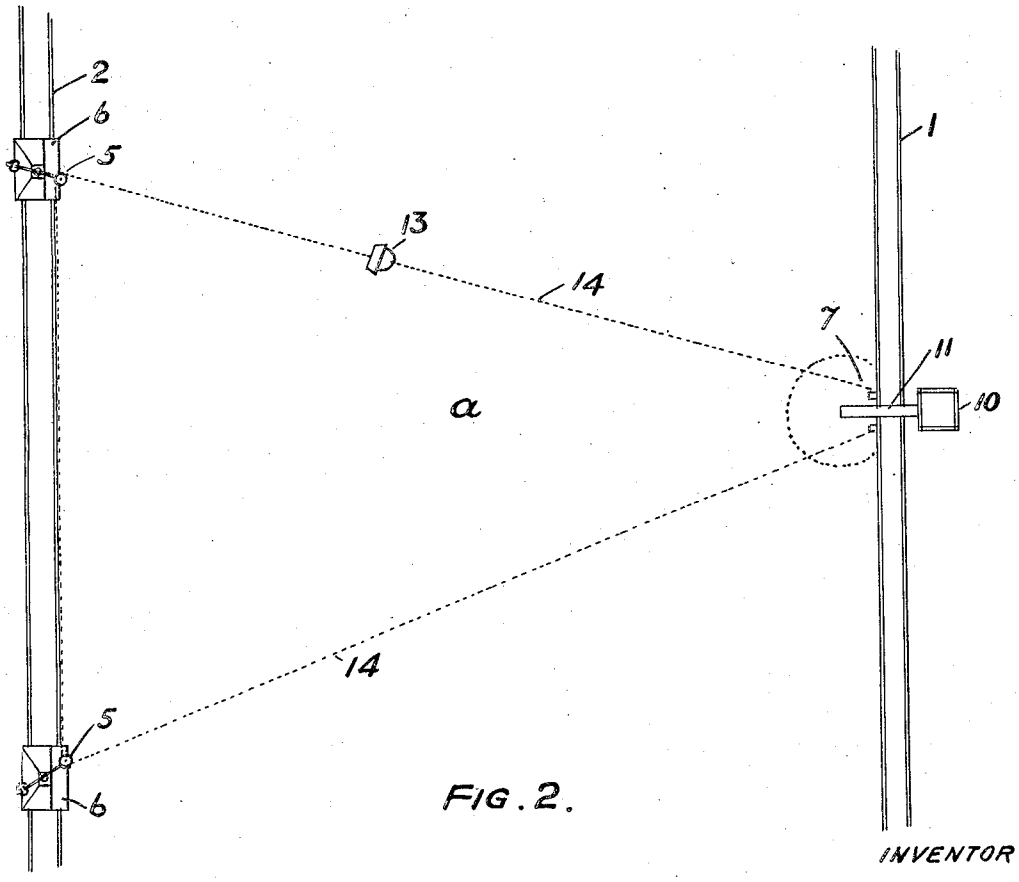


FIG. 2.

INVENTOR

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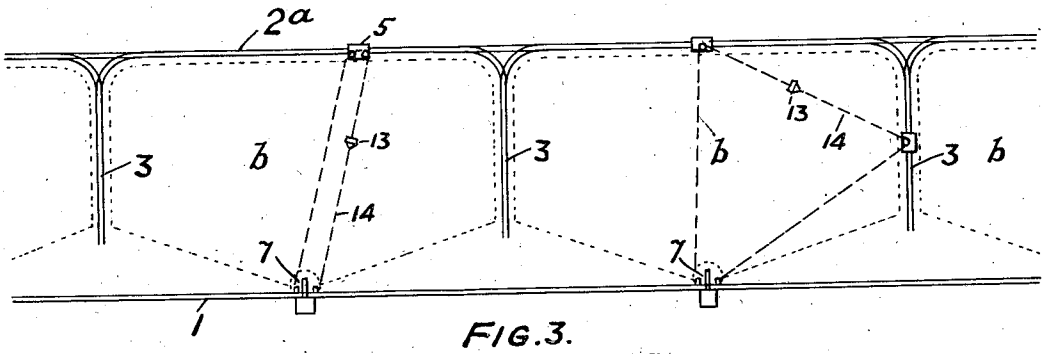


FIG. 3.

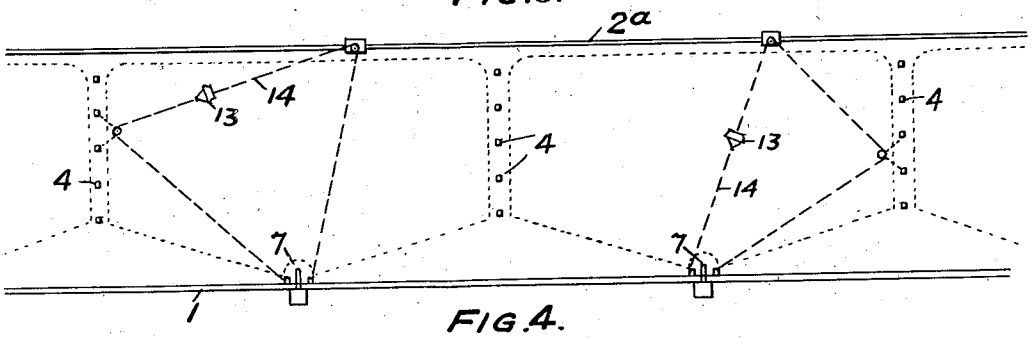


FIG. 4.

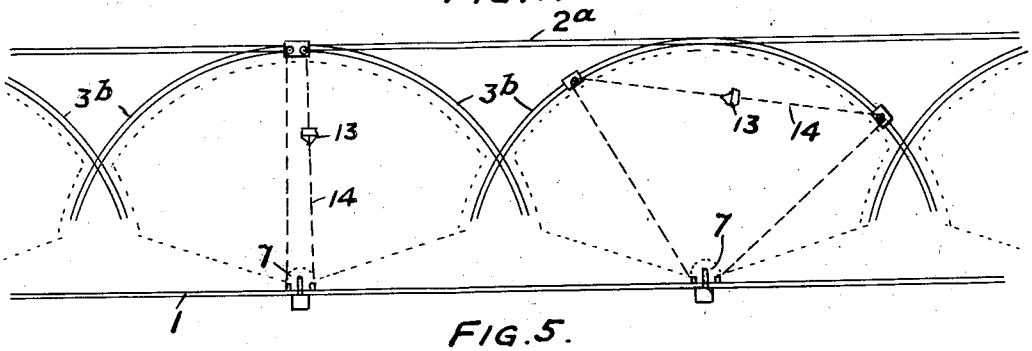


FIG. 5.

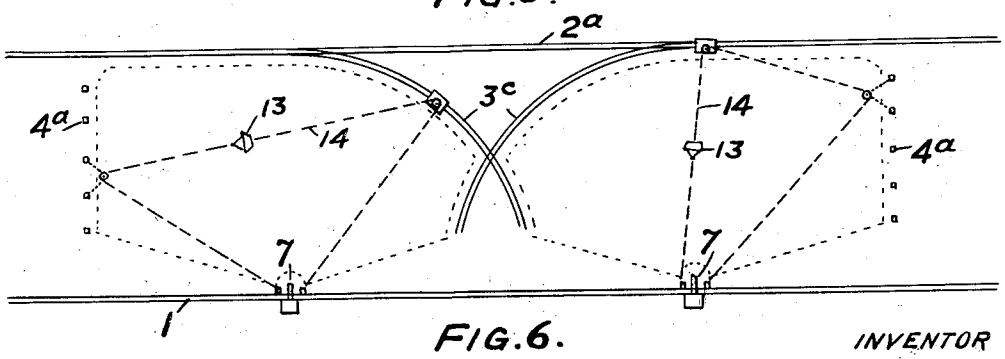


FIG. 6.

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Patented July 28, 1925. 1,547,290

UNITED STATES PATENT OFFICE.

ROBERT H. BEAUMONT, OF RADNOR, PENNSYLVANIA, ASSIGNOR TO R. H. BEAUMONT CO., OF PHILADELPHIA, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

STORAGE PLANT FOR COAL AND THE LIKE.

Application filed November 15, 1923. Serial No. 674,841.

To all whom it may concern:

Be it known that I, ROBERT H. BEAUMONT, a citizen of the United States, residing at Radnor, in the county of Montgomery and State of Pennsylvania, have invented a new and useful Storage Plant for Coal and the like, of which the following is a specification.

The present invention relates to drag scraper equipment such as is used in connection with a storage yard, and its principal object is to facilitate the storage and removal of coal or other material at any part of the yard. Another object of the invention is, broadly, to facilitate the storage and reclamation of coal or other material and to provide a multiple storage cable drag scraper system in which the coal or other material can be readily delivered or removed from any locality in the storage yard or yards. Other objects of the invention will appear from the following description at the end of which the invention will be claimed, but the invention will be first described in connection with the embodiments chosen for illustration in the accompanying drawings forming part hereof and in which—

Figure 1 is a diagrammatic sectional view of a storage plant embodying features of the invention.

Fig. 2 is a diagrammatic top or plan view of the same, and

Figs. 3, 4, 5 and 6 are views similar to Fig. 2 and illustrating modifications.

In the drawings 1 are railway rails or, in other words, a railroad by means of which the material is delivered, and the material, for the sake of this description, will be assumed to be coal, but the invention is not necessarily limited to that material. There is a track in spaced relation with the railroad line and it may provide with the railroad line a series of storage yards. In Fig. 2 this track is indicated at 2, and it is shown as parallel with the railroad line. In this case only one storage yard *a* is shown but by repetition other storage yards may be provided. As shown in Fig. 3 the track 2^a is shown as provided with spurs or branches 3 which extend toward the railway line 1 and provide a number of storage yards *b*. As shown in Fig. 4 the arrangement is substantially the same as shown in Fig. 3 except that the spurs comprise rows of back posts 4. As shown in Fig. 5 the spurs or, perhaps more accurately, the main parts of the track, are shown as arcs of circles 3^b. As shown in Fig. 6 the spurs 3^c are shorter arcs of circles and also rows 4^a of back posts are shown. On the tracks are movable drag scraper tail blocks 5. These are shown as mounted on wheeled trucks 6 adapted to travel on the tracks. Along the railroad line 1 is arranged drag scraper mechanism 7 which includes front drag scraper blocks. In the case of several yards there is such mechanism 7 for each yard. The drag mechanism varies but frequently includes a track hopper 8, adapted to receive material from the railroad car 9, an elevator 10 adapted to pick up the coal and deliver it down a chute 11 so as to form an initial pile as at 12, and other other provisions for reclaiming the material, also a hoist house and power mechanism which are too well understood to require specific illustration and description.

In use coal is received at the plant in railroad cars 9 and discharged into the hopper 8 below the railroad line. The elevator 10 picks up the coal and delivers it down the chute 11 to form an initial pile adjacent to the railroad. The scraper 13 is dragged by its cable 14 back and forth over the coal either to store or reclaim it as the case may be. Around the edge of the yard is the track fitted with a movable tail block or tail blocks either with or without some fixed tail block posts. To store coal at any portion of the storage yard the movable tail blocks are readily changed from one position to another. When reclaiming, coal is scraped back to the drag scraper mechanism 7 for loading on cars or for supplying a boiler house.

It will be obvious to those skilled in the art that modifications may be made in details of construction, arrangement and mere matters of form without departing from the spirit of the invention which is not limited to those matters or otherwise than as the prior art and the appended claims may require.

I claim:

1. A multiple storage plant for coal and the like comprising a railroad line, a track in spaced relation with the railroad line and including spurs extending towards the line and providing a series of storage yards, drag scraper tail blocks movable on said track to handle material at any portions of the storage yards, drag scraper mechanisms includ-

ing frontblocks disposed along the railroad line and appertaining to the respective yards, and drag scrapers and their cables co-operating with the tail and front blocks.

2. A storage plant for coal and the like comprising a railroad line, a track in spaced relation with the railroad line providing a storage yard therebetween, a drag scraper tail block movable on said track to handle material at any portion of the storage yard, drag scraper mechanism including a front block and disposed adjacent to the railroad line, and a drag scraper and its cable co-operating with said front and tail blocks.

ROBERT H. BEAUMONT.