

No. 871,469.

PATENTED NOV. 19, 1907.

A. BLIEDUNG.

AUTOMATIC COALING APPARATUS FOR BUNKERS, &c.

APPLICATION FILED MAR. 16, 1907.

Fig. 1

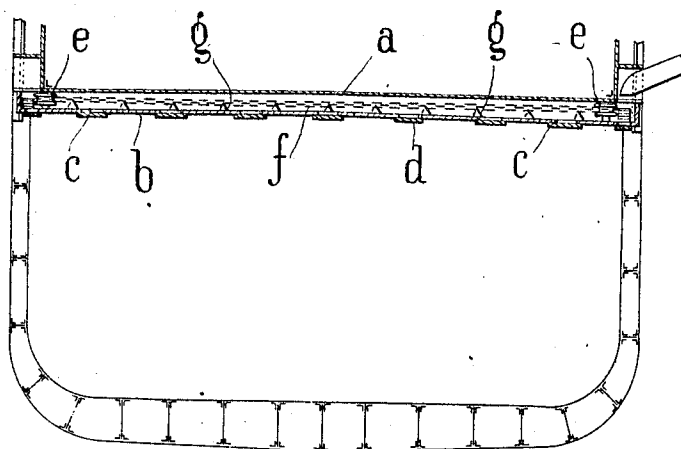
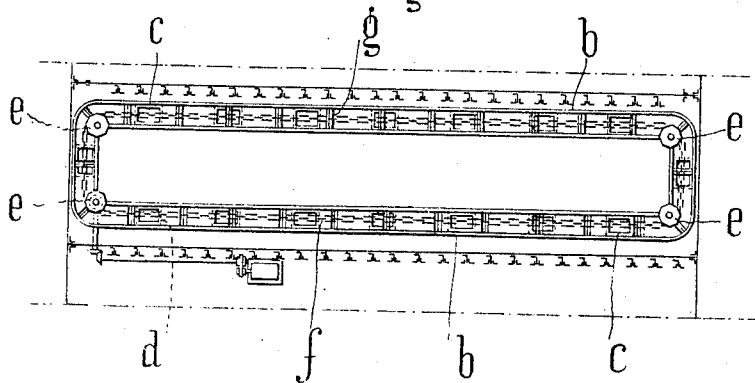


Fig. 2.



Witnesses:
William Schulz.
Adolph Miner.

Inventor:
August Bliedung
by his attorney
Frank W. Bensen

UNITED STATES PATENT OFFICE.

AUGUST BLIEDUNG, OF HAMBURG, GERMANY.

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No. 871,469.

Specification of Letters Patent.

Patented Nov. 19, 1907.

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To all whom it may concern:

Be it known that I, AUGUST BLIEDUNG, a citizen of Germany, residing at Hamburg, in Germany, have invented certain new and useful Improvements in Automatic Coaling Apparatus for Bunkers and Like Spaces, of which the following is a specification.

It has hitherto been customary to introduce goods for instance coals into bunkers and like spaces by shooting them laterally into the same by means of baskets or mechanical conveyers. The coals must then be trimmed by workmen in the bunkers in order to fill up the entire space. This method has the drawback of the work being very expensive and the health of the workmen trimming the materials suffers in consequence of the dust produced in the bunkers or like spaces.

The arrangement which forms the object of this invention removes these drawbacks by enabling the bunkers to be fully trimmed by purely mechanical means. It consists substantially of a distributing apparatus arranged preferably under the bunker deck and composed of a pulling and several forwarding members, which move in a channel and carry forward or convey the material shot through one or two places in the bunker deck and distribute it over the entire bunker space through occasionally closable apertures in the channel.

An example of construction of the object of the invention is shown in the accompanying drawings in which

Figure 1 is a side view, and Fig. 2 a plan view of the apparatus arranged in a ship.

A channel —*b*— is arranged under the bunker deck —*a*— if desired on a second ceiling or deck. This channel is provided with apertures —*c*— which are adapted to be closed by slides —*d*— operatable from the outside. Rollers —*e*— are also provided in the channel over which rollers *e* chain —*f*— travels, which carries scoops or buckets —*g*— both runs of the chain being located in a common horizontal plane or parallel to deck *a*. The rollers are operated mechanically from the boiler room or elsewhere.

The method of operation of this arrangement is as follows: the coal or the like which is to be conveyed into the bunker, is shot from overboard on one or both sides of the channel —*b*— and conveyed forward therein by the buckets or scoops —*g*—. At each place at which the material is intended to drop into the chamber, the slides —*d*— are opened so that the material may be distributed over the entire space.

What I claim is:—

In a coaling apparatus, a deck, a chamber beneath the deck and having lower openings, rollers within the chamber, a chain engaging the rollers and arranged in a plane parallel to the deck, and buckets carried by the chain, substantially as specified.

AUGUST BLIEDUNG.

Witnesses:

HAMILTON RESEK,

IDA CHRIST. HAUFERMANN.