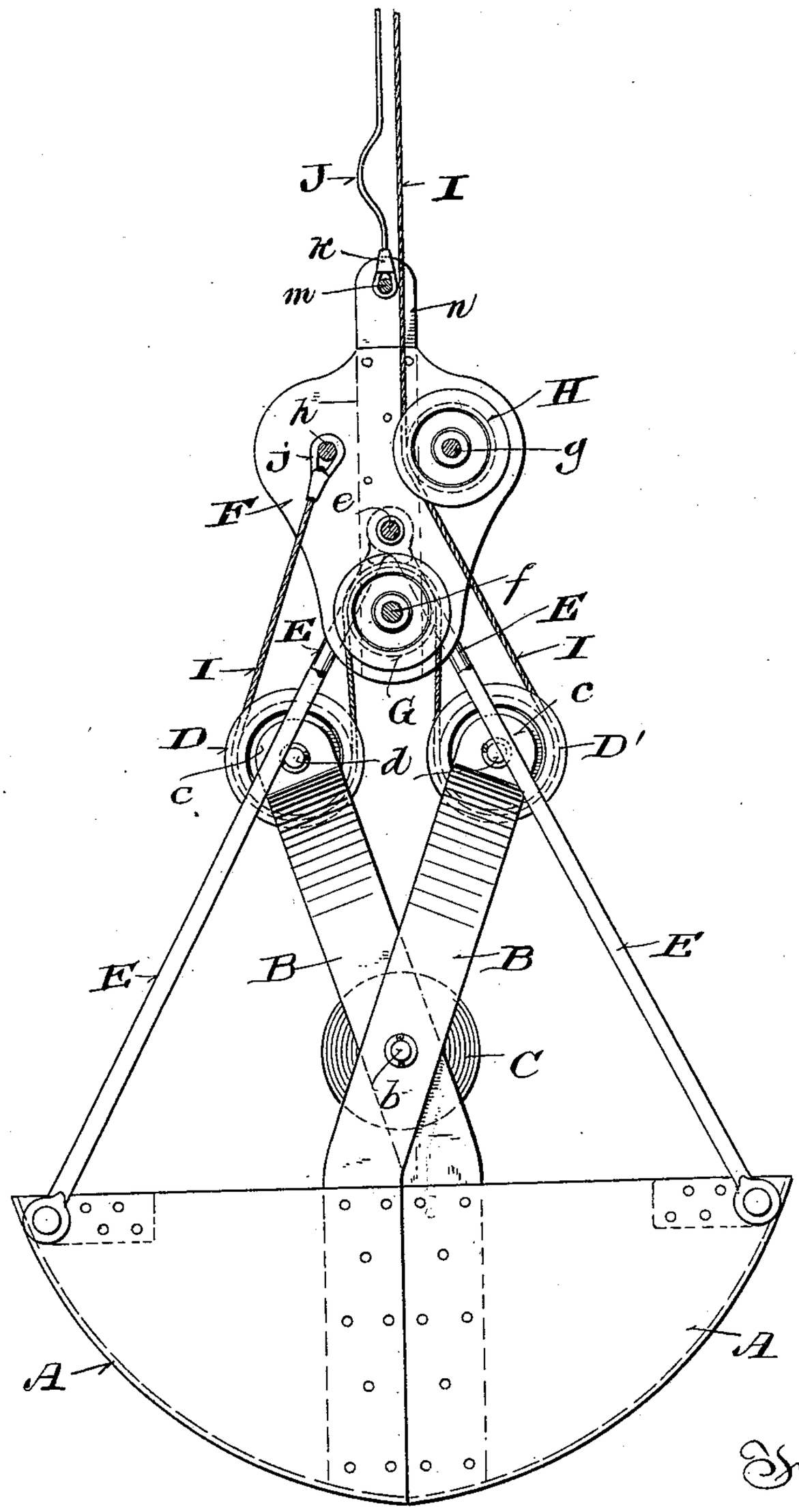
No. 667,476. Patented Feb. 5, 1901.

A. WIRSING.

HOISTING BUCKET.

(Application filed July 27, 1900.)

(No Model.)



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UNITED STATES PATENT OFFICE.

ANDREW WIRSING, OF MILWAUKEE, WISCONSIN.

HOISTING-BUCKET.

SPECIFICATION forming part of Letters Patent No. 667,476, dated February 5, 1901.

Application filed July 27, 1900. Serial No. 24,982. (No model.)

To all whom it may concern:

Be it known that I, ANDREW WIRSING, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Hoisting-Buckets; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its main object to utilize a draft-cable as the means for closing a separable hoisting-bucket; and said invention consists in certain peculiarities of construction and combination of parts hereinafter particularly set forth with reference to the accompanying drawing and subsequently claimed.

The drawing represents a side view of my improved separable hoisting-bucket having parts thereof broken away and in section.

Referring by letter to the drawing, A indicates each of a pair of sections constituting the body of my improved separable hoisting-bucket. Made fast to the sides of each of the body-sections A, to extend upward from their inner corners at acute angles, are side arms B, and the arms of one section cross those of the other section, to which they are pivotally connected by means of studs *b* at the ends of a weight C or otherwise. The upper ends of arms B are bent inward and turned up to provide ears *c* for the pintles *d* of sheaves D D′, and link-rods E in pivotal connection with the outer corners of the body-sections of the bucket have their upper ends loose on a pin *e* in a shell F, only one side of which is herein shown. A sheave G has its pintle *f* in the shell F on the same vertical plane as pin *e* below the latter, and in said shell, on planes parallel to the one aforesaid in opposite directions therefrom, are arranged another pintle *g* and a pin *h*, this pintle and pin being shown on the same horizontal plane above the former pin. A sheave H is arranged on pintle *g*, and a draft-cable I, passed down against this sheave, under sheave D′, over sheave F, and under sheave D, is provided with a socket-eye *j*, engaged by pin *h* in the shell aforesaid. Another cable J is provided at one end with a socket-eye *k*, engaged by a pin *m*, supported by upper extensions *n* of the shell.

In practice suitable means are provided for control of the cables, so that the one J will be practically slack when there is draft on the one I employed for hoisting the bucket. The bucket being open and on descent, the weight C will force it into coal or other material to be elevated, and draft being exerted on cable I said bucket will be closed and hoisted to the desired altitude, after which cable J is held and the draft-cable slacked to permit automatic opening of the aforesaid bucket by gravity of its contents.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The body-sections of a separable hoisting-bucket provided with side arms extending upward from the inner corners of said sections at acute angles, the arms of one section crossing those of the other section and having pivotal connection with the same, a pair of sheaves having their pintles supported by the arms aforesaid, a shell in link-rod connection with the outer corners of said body-sections, a sheave in the central lower portion of the shell under the upper ends of the link-rods, another sheave in the upper portion of said shell out of line with the former shell-sheave, a shell-suspending cable, and a draft-cable that being run down against the upper shell-sheave, under one of the arm-sheaves, over the lower shell-sheave and under the other arm-sheave is made fast to the aforesaid shell.

2. The body-sections of a separable hoisting-bucket provided with side arms extending upward from the inner corners of said sections at acute angles, the arms of one section crossing those of the other section, a weight having end studs engaging the arms at their crossings, a pair of sheaves having their pintles supported by the arms aforesaid, a shell in link-rod connection with the outer corners of said body-sections, a sheave in the central lower portion of the shell under the upper ends of the link-rods, another sheave in the upper portion of said shell out of line with

the former shell-sheave, a shell-suspending cable, and a draft-cable that being run down against the upper shell-sheave, under one of the arm-sheaves, over the lower shell-sheave and under the other arm-sheave is made fast to the aforesaid shell.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

ANDREW WIRSING.

Witnesses:
N. E. OLIPHANT,
B. C. ROLOFF.