No. 869,422. PATENTED OCT. 29, 1907.

W. H. CORBETT.

SHEAVE BLOCK.

APPLICATION FILED JULY 1, 1907.

2 SHEETS—SHEET 1.

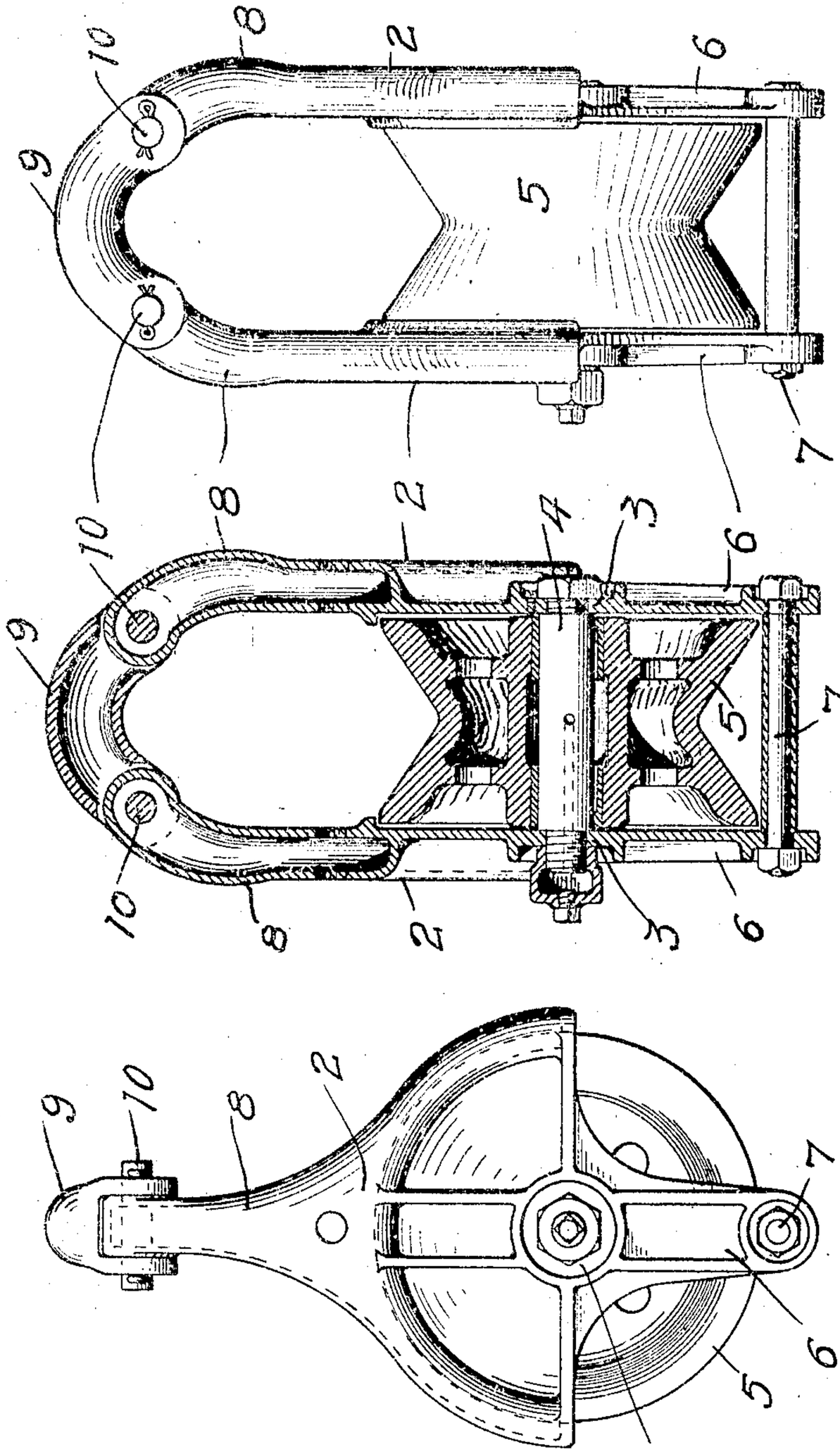

Fig. 3.

Fig. 2.

Fig. 1.

WITNESSES

J. B. Ennis

INVENTOR

WILLIAM H. CORBETT

BY Paul & Paul

HIS ATTORNEYS

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2 SHEETS—SHEET 2.

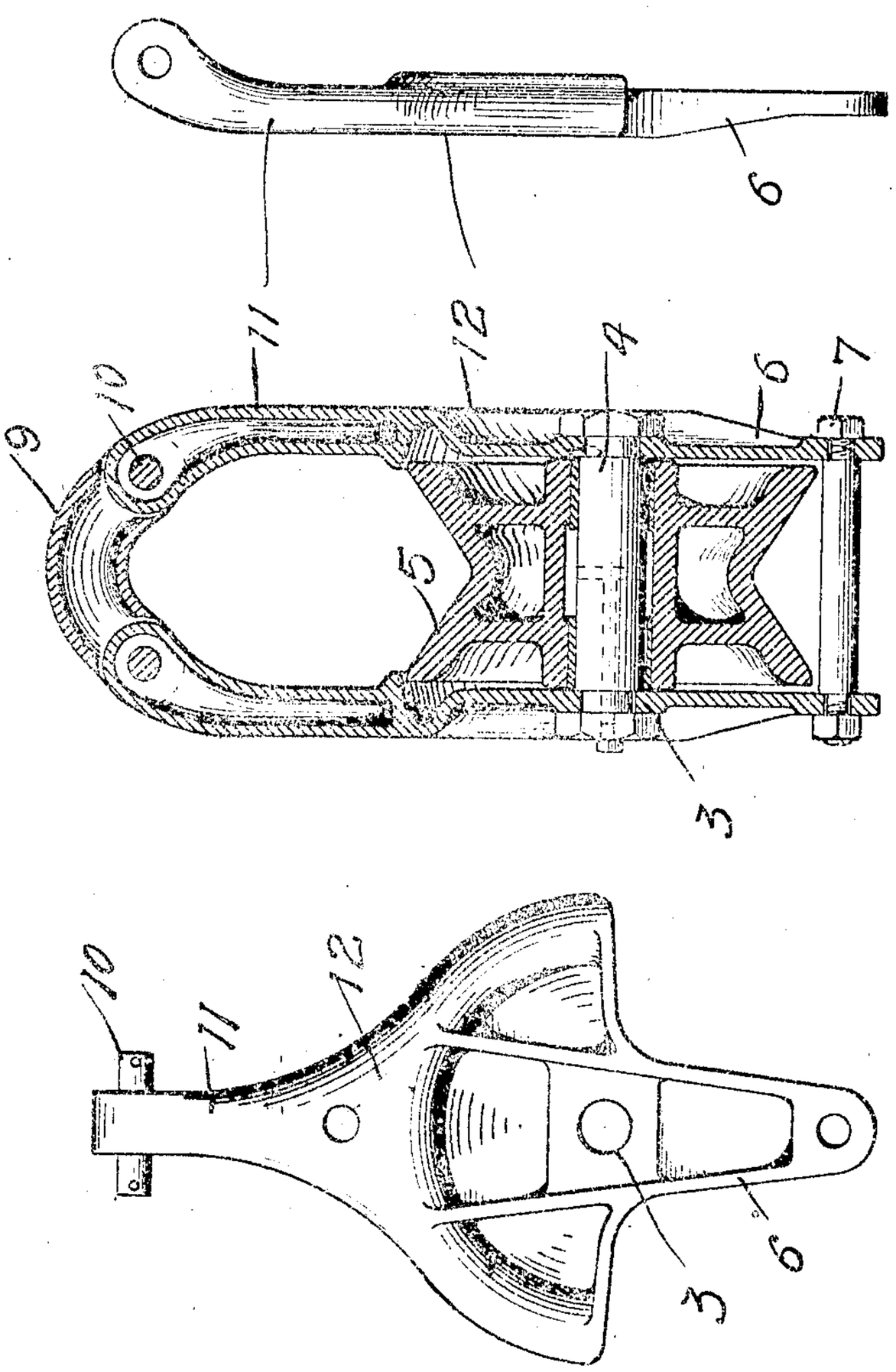

Fig. 5.

Fig. 6.

Fig. 4.

WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM HARRISON CORBETT, OF PORTLAND, OREGON.

SHEAVE-BLOCK.

No. 869,422. Specification of Letters Patent. Patented Oct. 29, 1907.

Application filed July 1, 1907. Serial No. 381,612.

To all whom it may concern:

Be it known that I, WILLIAM HARRISON CORBETT, of Portland, Multnomah county, Oregon, have invented certain new and useful Improvements in Sheave-Blocks, of which the following is a specification.

In logging operations a sheave block is used in connection with the cables or chains, and it frequently happens that the chain and the hooks sometimes bunched together will be drawn through the block at high speed. To permit the free passage of the chains and hooks it has been customary to provide blocks with large openings and the object of my invention is to improve the block of that type by providing one which will be very strong and durable and will permit the passage of the chains and hooks bunched together without danger of their catching on the block and damaging it.

The invention consists generally in various constructions and combinations, all as hereinafter described and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a side elevation of a sheave block embodying my invention. Fig. 2 is a sectional view of the same. Fig. 3 is a front view. Fig. 4 is a side view of a cheek plate of modified construction. Fig. 5 is a sectional view of the sheave showing the modifications in the construction of the plates. Fig. 6 is an edge view of one of the cheek plates.

In the drawing, 2 represents the cheek plates having bearings 3 for an axle 4 on which the sheave 5 is mounted. Brackets 6 depend below the periphery of the sheave 5 on each side thereof and are connected by a bolt 7. The upper portions of the cheek plates are semi-circular in form and merge into upwardly extending inwardly curved arms 8 which are substantially parallel with one another for a considerable distance and are connected at their upper ends by a link 9 that is detachably secured to the said arms at each end by pins 10. The arms are cored, the holes therein extending down on each side to the lower edges of the cheek plates, and are tubular in cross section and extend parallel with one another for a considerable distance in the planes of their respective cheek plates and present a wide unobstructed passage the full width of the sheave for the chains, cables and hooks, to pass through. The outer surfaces of the arms are smooth and rounded and have no projecting edges or corners for a hook or chain to catch on. Access to the cable may be had by detaching the link 9. The cheek plates and arms are made of malleable casting which will run freely in the mold, the core holes extending through the arms and plates as indicated in Fig. 1, down on each side of the sheave to points on a level substantially with the sheave pivot.

In Figs. 4, 5 and 6 I have shown a modified construction which I designate as semi-tubular, being made of cast-steel and having tubular arms corresponding to those shown in Fig. 2, but which I will designate by reference numeral 11, said arms being connected by the link corresponding to the one already described with reference to Sheet 1. The cheek pieces 12, however, are made open on the inner side instead of having the cored holes in the arms extending down on each side of the cheek plate as in the construction shown in Fig. 1. The arms 11 have no projecting edges or corners on which a chain can catch, and the opening between the arms is very large and will allow a bunch of chain or hooks to move rapidly through the block without being obstructed in any way.

I claim as my invention:

1. A sheave block comprising cheek plates, a sheave having bearings between said plates and arms tubular in cross section and having smooth exterior surfaces projecting from said cheek plates in planes substantially parallel with one another, the ends of said arms being curved toward one another, and a link detachably connecting said arms.

2. A sheave block comprising cheek plates, and a sheave journaled between said plates, said cheek plates being composed of malleable castings, and arms substantially tubular in cross section extending from said plates, an opening being formed between said arms the full width of said sheave, and said arms having smooth exterior surfaces to permit the passage of a chain or hooks through the block without danger of catching on said arms, substantially as described.

3. A sheave block comprising cheek plates, and a sheave journaled between said plates, the edges of said plates being tubular in form and terminating on one side in tubular extensions or arms having smooth exterior surfaces whereby hooks and chains may slide through said block without catching on said plates, substantially as described.

In witness whereof, I have hereunto set my hand this 21 day of June 1907.

WILLIAM HARRISON CORBETT.

Witnesses:
C. E. GRELLE,
H. T. HUMPHREY.