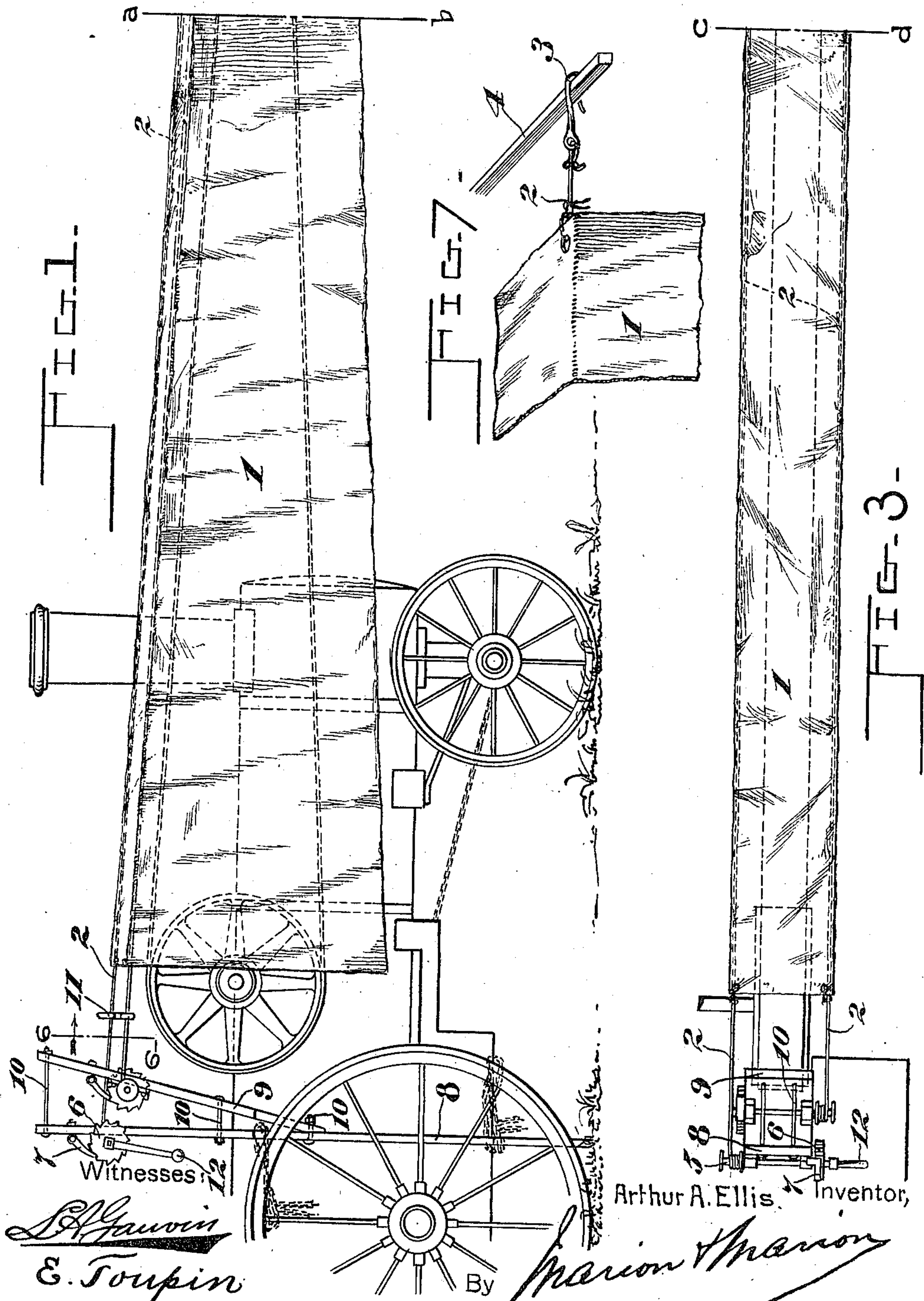


A. A. ELLIS.
BELT PROTECTOR.
APPLICATION FILED SEPT. 20, 1909.

974,780.

Patented Nov. 8, 1910.

2 SHEETS-SHEET 1.



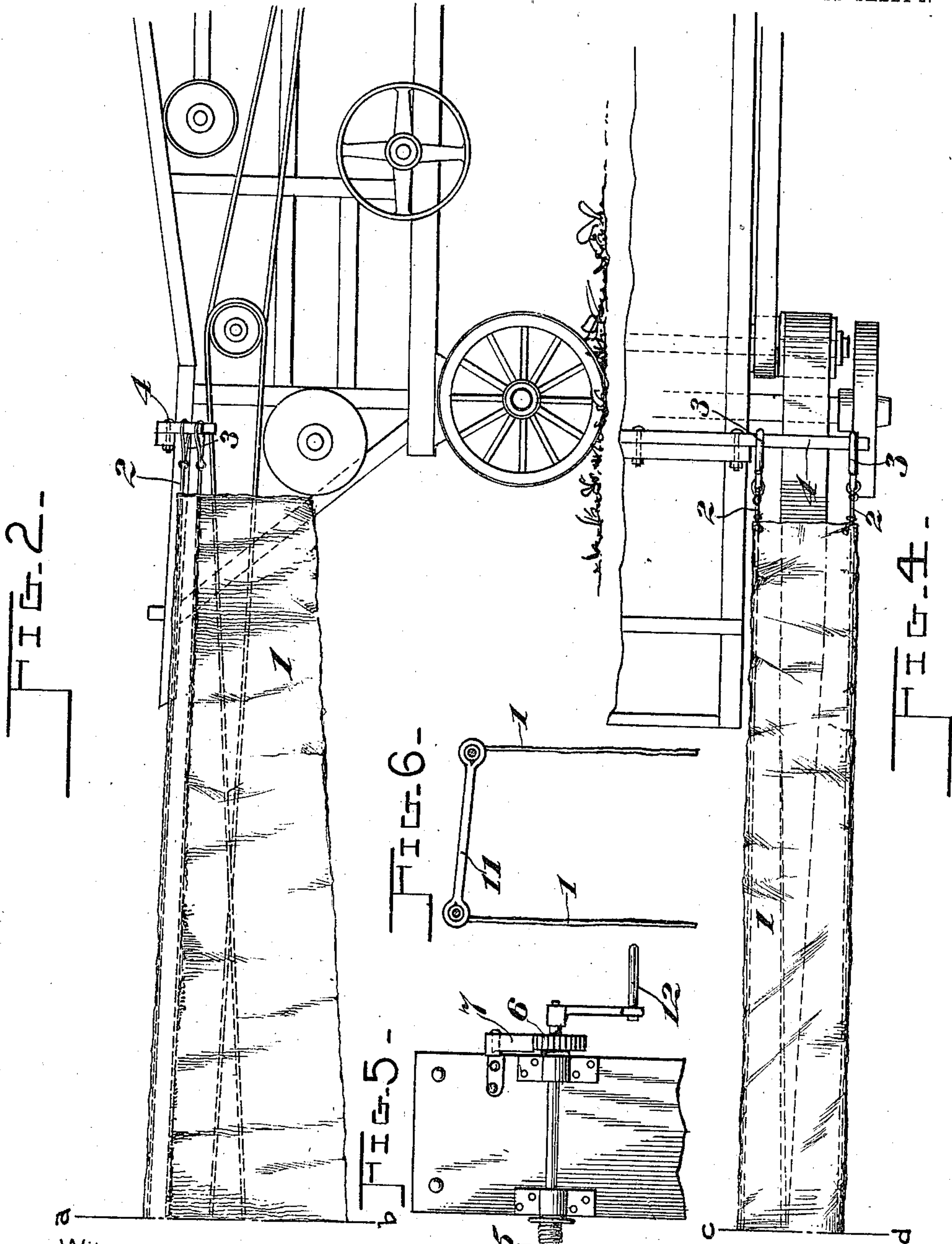
A. A. ELLIS.
BELT PROTECTOR.

APPLICATION FILED SEPT. 20, 1909.

974,780.

Patented Nov. 8, 1910.

2 SHEETS—SHEET 2.



Witnesses:

L. A. Guvin
E. Tourpin

Arthur A. Ellis. Inventor,

By

Marion Marion

Attorneys

UNITED STATES PATENT OFFICE.

ARTHUR A. ELLIS, OF MINDEN, ONTARIO, CANADA.

BELT-PROTECTOR.

974,780.

Specification of Letters Patent.

Patented Nov. 8, 1910.

Application filed September 20, 1909. Serial No. 518,604.

To all whom it may concern:

Be it known that I, ARTHUR A. ELLIS, a subject of the King of Great Britain, residing at Minden, county of Victoria, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Belt-Protectors; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention to be hereinafter described relates to belt protectors or shields, and particularly to a shield or protector especially designed for use on threshing and other farm machinery.

Broadly speaking, it comprises a flexible sheet of cloth or fabric, or similar material, adapted to be suspended from a point above the drive belt of a thresher or like machine, means for shaping the sheet to inclose the belt, means for tightening the sheet, and means for holding the sheet in operative position.

In order to more clearly disclose the construction, operation and use of the invention, reference should be had to the accompanying drawings forming part of the present application.

Throughout the several figures of the drawings, like reference characters designate the same parts.

In the drawings: Figure 1 is a partial side elevation of the invention, in use; Fig. 2 is a continuation of Fig. 1; Fig. 3 is a plan view of Fig. 1; Fig. 4 is a plan view of Fig. 2; Fig. 5 is a plan view of one of the tightening means; Fig. 6 is a section on line 6—6 of Fig. 1, looking in the direction of the arrow; and Fig. 7 is a fragmentary view, showing the connections between the bar 4 and hooks 3.

The main object of the present invention is to provide a shield or guard, which will completely protect the drive belt from the effects of the weather, and one which, at the same time, may be readily and easily applied or removed, as desired.

Referring to the drawings in detail, 1 indicates a flexible sheet or cover adapted to be longitudinally supported by parallel tightening cords 2, extending the entire length of the sheet and projecting beyond

the ends of the sheet. One end of each of these tightening cords is provided with a hook 3, adapted to catch over a beam or bar 4 projecting from the framework of the machine, while the opposite end of each cord is secured to a rotary shaft or a winding drum 5, which is provided with a ratchet 6 adapted to be engaged and held by a pawl 7. Two separate drums are provided, one for each of the guards 2. One of the drums is journaled on the face of an upright beam 8, while the other is similarly journaled in a branch beam 9 solidly secured thereto by bolts 10, the upright beam being solidly secured to one of the machine wheels, in any suitable manner.

In order to keep the guards 2 properly separated, so that the top of the sheet will be spread, as in Fig. 3, to overlies the drive belt, a spreader 11 has been provided. This spreader comprises a simple bar, having eyes through which the cords are passed, as shown in Fig. 6.

Each of the drums may be successively operated by a removable handle 12.

The operation of the invention is as follows: The sheet 1 will be loosely spread over the top surface of the upper run of the drive belt, the hooks 3 will be placed over the beam 4, the opposite ends of the cords will be passed through the eyes of the spreader 11 and secured to their respective drums, which will both be operated successively. As the drums are operated, the cords 2 become taut and so support the sheet in the position shown in Figs. 1, 2, 3, 4 and 6, so that it acts as a tent for the belt beneath. As soon as each of the cords 2 is sufficiently tightened, its drum is locked by the pawl 7, engaging a ratchet 6.

It is clear that changes may be made in the construction, arrangement and disposition of the several parts of the invention, without in any way departing from the field and scope of the same, and it is meant to include all such within this application, where-in only a preferred form has been disclosed.

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

A belt protector of the character described, comprising a flexible sheet, supporting cords extending longitudinally beneath said sheet

and projecting beyond the opposite ends of
said sheet, a beam, hooks connected to the
ends of said cords which extend beyond one
end of the sheet, said hooks being adapted
5 to catch over said beam; winding drums,
means for supporting the winding drums,
connections between said drums and the op-
posite ends of said cords, means for rotating

the drums, and means for securing the drums
against reverse rotation. 10

In witness whereof I have hereunto set
my hand in the presence of two witnesses.

ARTHUR A. ELLIS.

Witnesses:

R. H. BAKER,

J. J. MORTIMER.