

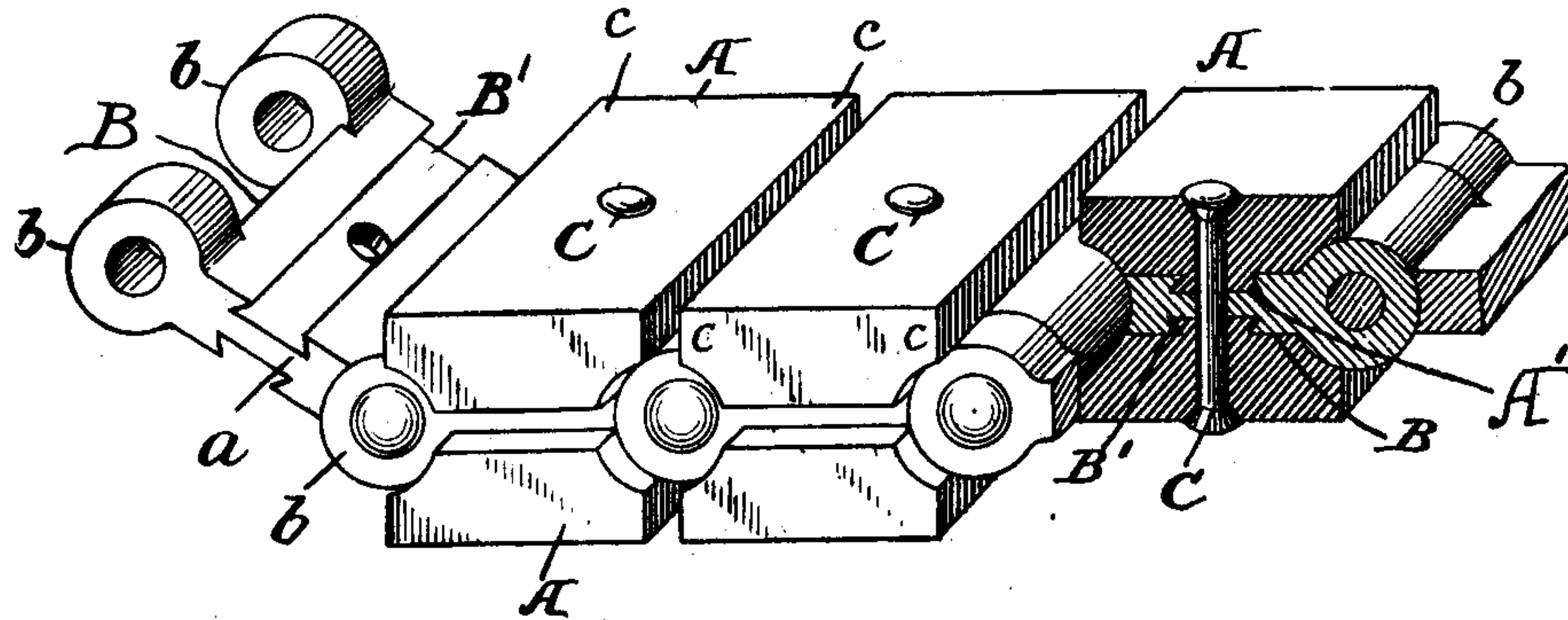
No. 675,838.

Patented June 4, 1901.

H. C. CAPEL, Dec'd.
H. G. OGDEN, Jr., Administrator.
DRIVING BELT.

(Application filed Dec. 15, 1900.)

(No Model.)



Witnesses
J. H. Hinkel
H. G. Ogden Jr.

Inventor
Herbert C. Capel, deceased
Herbert G. Ogden Jr.
Administrator
By *John Freeman*
Attorney

UNITED STATES PATENT OFFICE.

HERBERT G. OGDEN, JR., OF WASHINGTON, DISTRICT OF COLUMBIA,
ADMINISTRATOR OF HERBERT CHURCHILL CAPEL, DECEASED.

DRIVING-BELT.

SPECIFICATION forming part of Letters Patent No. 675,838, dated June 4, 1901.

Application filed December 15, 1900. Serial No. 39,982. (No model.)

To all whom it may concern:

Be it known that HERBERT CHURCHILL CAPEL, deceased, late a subject of the Queen of England, residing at London, England, did during his lifetime invent certain new and useful Improvements in Driving-Belts, Chains, and the Like, of which the following is a specification.

This invention relates to driving-belts, chains, and the like, and has for its object to construct a device for transmitting power which shall combine the advantages of a chain and a belt or rope and be without the chief disadvantages of those devices.

According to this invention a chain is built up of links after the manner of a sprocket-chain, each link being provided with a facing of leather, fiber, rubber, rawhide, or other suitable material. Conveniently leather or rawhide is employed, pieces of which are applied to one or preferably both faces of each link, the blocks of leather being retained in position by rivets, screws, cement, or other means. The leather faces are undercut, the link being correspondingly shaped and the pieces slipped laterally into place and retained by cement or otherwise. It will thus be seen that the article thus made up is, in fact, a leather-faced belt upon a metal chain-base. The leather or other substance employed for facing the links may be cut in various shapes. Preferably the metal links are made so that the chain can be shortened by the removal of one or more without difficulty.

It will be noted that a driving-belt constructed in accordance with this invention combines strength, flexibility, and adhesive properties and has all the advantages of a ventilated belt.

The accompanying drawing is a perspective view, partly in section, of a short portion of a chain with a facing A, of leather, according to the invention.

The under side of each leather piece A is undercut, so as to form a dovetail tongue A', which can slide into and fit in a dovetail groove B' in the link. The faces of the dove-

tail tongue and the contiguous portion of the link may be covered with cement to prevent the leather from slipping out of the link or the leather and link may be riveted together by a rivet C. The metal link B is shown as having a body portion *a* and connecting-eyes *b* extending therefrom at each end, and the facings of soft material have shoulders *c* extending over the connecting-eyes. An extended surface is thus formed of the soft material larger than would be obtained if the body portion alone was covered with the facing, and the connecting-eyes are effectually protected from wear.

Although the leather or equivalent facing is shown upon both sides of each link, it might be omitted from one side, leaving the belt with only one leather-faced side. This is done in cases in which only one side of the belt—the faced side—is required to make contact with a pulley.

What is claimed as the invention, and desired to be secured by Letters Patent, is—

1. In a chain, the combination with a metal link having a body portion with connecting-eyes, of grooves in said body portion and facings of softer material having tongues engaging with the grooves, and shoulders extending over the connecting-eyes, substantially as described.

2. In a chain, the combination with a metal link having a body portion and connecting-eyes extending therefrom, of dovetailed grooves in said body portion, and facings of softer material having tongues engaging the dovetailed grooves, and shoulders extending over the connecting-eyes, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HERBERT G. OGDEN, JR.,
Administrator of the estate of Herbert Churchill Capel, deceased.

Witnesses:

H. M. GILLMAN, JR.,
W. CLARENCE DUVAL.