S. PONON.

ENDLESS FILM REEL.

APPLICATION FILED MAY 24, 1916.

1,254,272.

Patented Jan. 22, 1918.

Fig 2

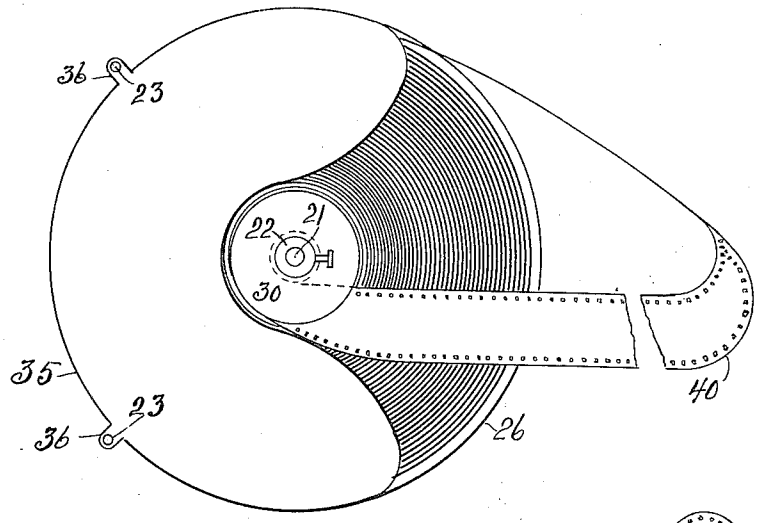
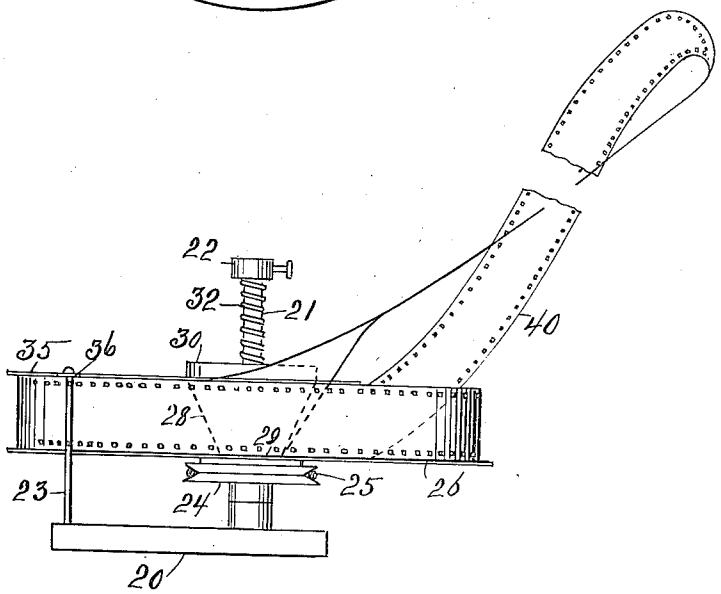


Fig 1



Inventor

Saul Ponon

By his Attorney

Arde Bomeville

UNITED STATES PATENT OFFICE.

SAUL PONON, OF NEWARK, NEW JERSEY, ASSIGNOR TO DAYLIGHT CINEMA CORPORATION, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

ENDLESS-FILM REEL.

1,254,272. Specification of Letters Patent. Patented Jan. 22, 1918.

Application filed May 24, 1916. Serial No. 99,513.

To all whom it may concern:

Be it known that I, SAUL PONON, a citizen of the United States, and a resident of Newark, in the county of Essex and State of New Jersey, have invented certain new and Useful Improvements in Endless-Film Reels, of which the following is a specification.

This invention relates to an endless film reel. The organization of the invention comprises a reel, by means of which a film is simultaneously wound up and unwound on said reel.

In the accompanying drawings Figure 1 is an elevation of an exemplification of the improved reel with a film and Fig. 2 represents a top plan view of Fig. 1.

A supporting block 20 has extending therefrom a guide rod 21, with the collar 22. A stanchion 23 also extends from the block 20. A pulley 24 with the belt 25 is journaled on the rod 21 and has secured thereto the disk 26.

A cone shaped guide block 28 with the small end 29 and the large end 30 is journaled on the rod 21. A spring 32 bears between the collar 22 and the end 30 of the guide block 28. A guide cover 35 having formed therewith the lugs 36 is supported on the stanchions 23. A moving picture film is indicated by 40 and is shown unwinding from its central portion and simultaneously being wound up at its outer portion. The said film encircles the cone shaped supporting block 28, bears on the disk 26 and is guided by the cover 35.

To operate the device the belt 25 is continuously turned by any suitable means not shown, and by which the disk 26 and the film 40 is turned. The film 40 leaves the block 28 and is actuated by the projecting machine or other device in which it is used (not shown) and after passing through the said machine returns to the reel. The film is an endless one and winds up and unwinds on the same guide block. Thereby one of the usual reels is eliminated. The conical wall of the guide block 28 guides and allows the easy discharge of the film at its core and carries it over the other portion of the film that is supported on the disk 26, and should the film become unduly strained the block 28 will rise against the tension of the spring 32.

When the disk 26 turns, the sprocket wheel of a motion picture machine not shown also turns, and the said sprocket wheel engaging the film 40 pulls the latter at its core from the disk 26. The cone shaped guide block 28 guides the film 40 as it is discharged from the reel. After passing over the sprocket wheel the film 40 returns to the disk assisted by the rotations of the latter. As the film is an endless band it is continuously unwound from its center or core and wound up on the outside.

Having described my invention what I desire to secure by Letters Patent and claim is:

1. In a reel of the character described the combination of a supporting rod, a pulley journaled on the rod, a disk secured to the pulley, a guide block for a film journaled on the rod with one end normally bearing against the face of the disk and a flexible medium bearing against the other end of said block.

2. In a reel of the character described the combination of a supporting rod, a pulley journaled on the rod, a disk carried by the pulley, means to turn the pulley, a cone shaped guide block for a film journaled on the rod with one end normally bearing against the face of the disk and a spring bearing against the other end of said block.

3. In a reel of the character described the combination of a supporting block, a guide rod extending from said block, a pulley journaled on the said rod, a disk supported by said pulley, a cone shaped guide block for a film journaled on said rod and normally bearing on said disk, a spring bearing on the guide block, stanchions extending from the supporting block, a guide cover for said film supported on said stanchion and means to turn the pulley and disk and thereby continuously move the film permitting it to be discharged at its core and wound up at its outer portion on said disk.

4. In a reel of the character described the

combination of a rotating disk, a rotating cone shaped guide block over the disk for an endless film, a stationary cover for the film and means to turn the disk and thereby discharge the film from its core and permit the discharge end to travel over the body of the film that is located around the guide block.

Signed at the borough of Manhattan, in the county of New York and State of New York, this 22nd day of May, A. D. 1916.

SAUL PONON.

Witnesses:

A. A. DE BONNEVILLE,

RALPH E. SLAYTON.