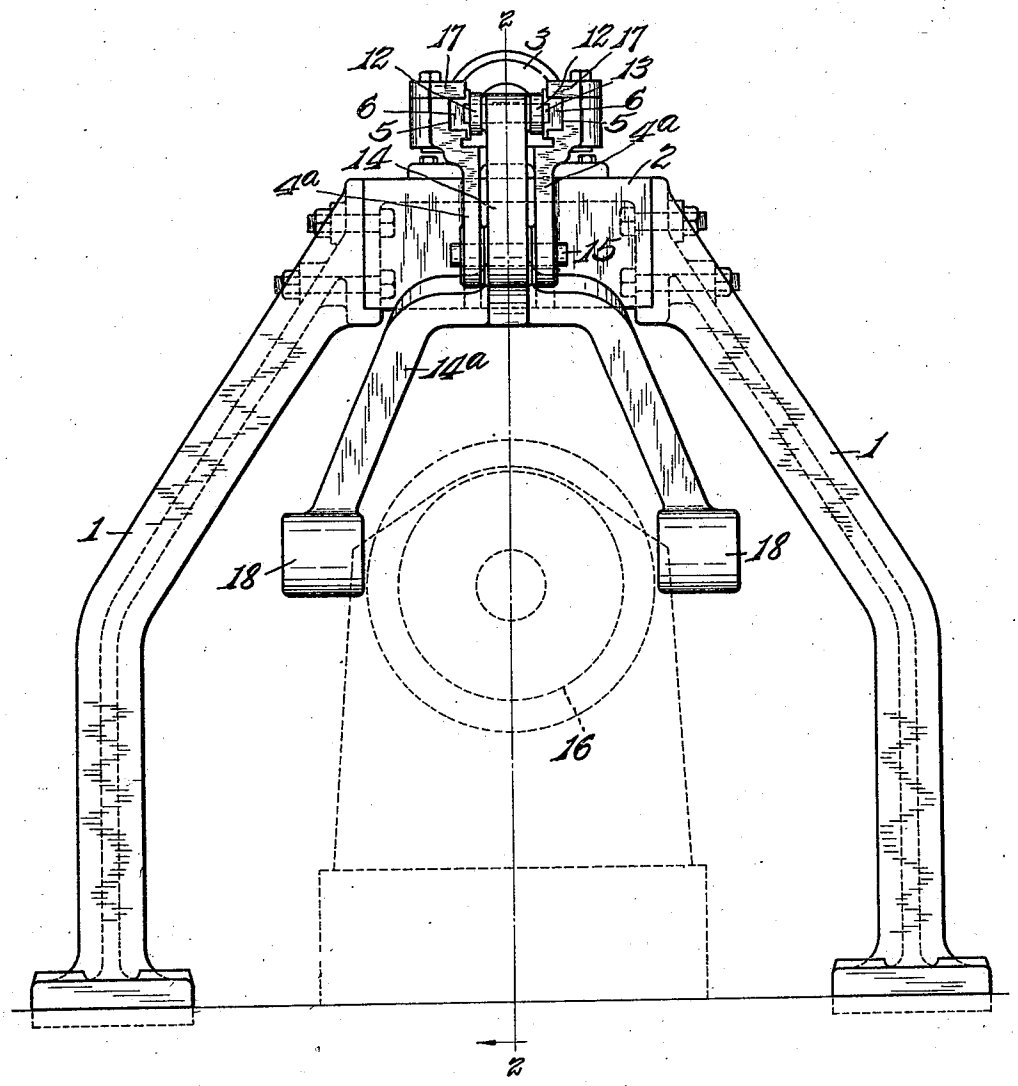
Feb. 28, 1928. 1,660,608

F. E. FLYNN

APPARATUS FOR STRIPPING COILS FROM REELS

Filed Dec. 16, 1926 2 Sheets-Sheet 1

FIG 1



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FIG 2

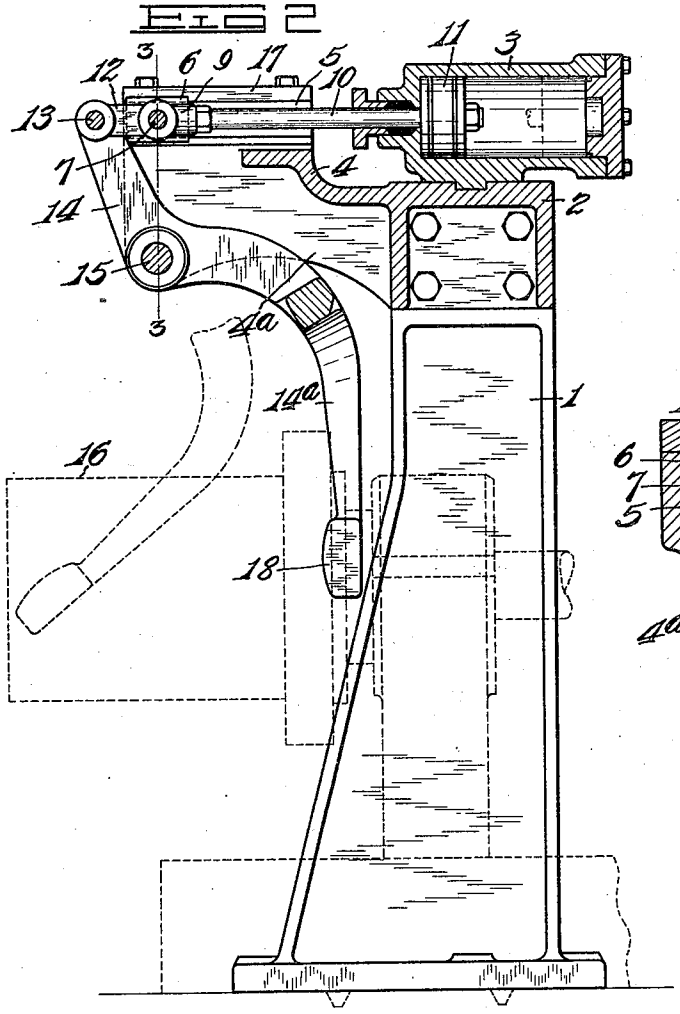


FIG 3

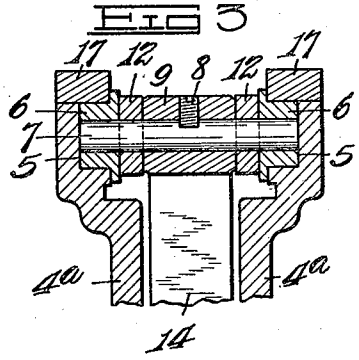
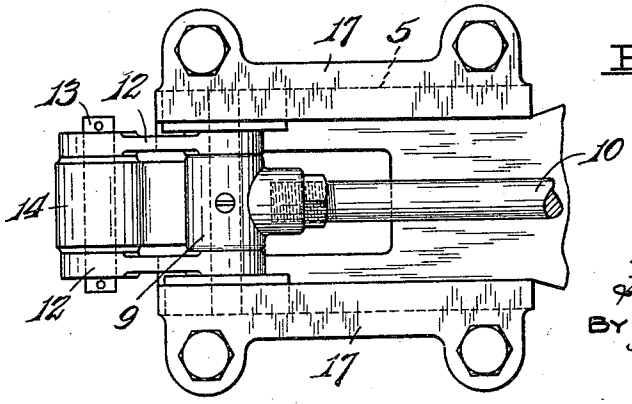


FIG 4



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Patented Feb. 28, 1928. 1,660,608

UNITED STATES PATENT OFFICE.

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APPARATUS FOR STRIPPING COILS FROM REELS.

Application filed December 16, 1926. Serial No. 155,302.

This invention relates to kick-off mechanism for metal-coiling reels, and it has for its primary object to provide an improved form of device for mechanically stripping from metal-coiling blocks, or reels, the rolls or coils of metal which are wound upon the latter as they come from the rolls of the rolling mill.

In describing the invention in detail, reference is herein had to the accompanying drawings, in which—

Figure 1 is a front elevation of the invention;

Figure 2 is a section on line 2—2, Fig. 1;

Figure 3 is an enlarged detail section taken substantially on line 3—3, Fig. 2; and—

Figure 4 is an enlarged top plan view of the yoke support and crosshead guide.

Referring to said drawings, the reference numeral 1 designates each of two oppositely disposed supporting members or legs, upon the upper ends of which is rigidly mounted a table-like-bed 2. Said members 1 and said bed 2 together constitute a stand for the support of the working parts of the invention.

The bed 2, which forms a mounting or rest for a horizontally disposed power cylinder 3, has a forwardly directed extension or bracket 4, herein shown as formed integral therewith, but which, obviously, may be made as a separate part and suitably attached to the bed. Said bracket includes a pair of parallel vertically disposed fins 4^a which have upper oppositely disposed head portions shaped to form, in conjunction with thereto attached plates 17, confronting horizontal guideways or channels 5 within which are disposed slide blocks 6. Said slide blocks have loosely fitted therein the opposite ends of a pin 7 upon which is fixed, as by means of a set screw 8, a crosshead 9 which is rigidly attached to the forward end of a piston rod 10. Said piston rod carries upon its opposite end a piston 11 which is reciprocable within the power cylinder 3.

Mounted on the pin 7 between the opposite ends of the crosshead 9 and the slide blocks 6 are ends of parallel links 12 which extend forward from said pin and have their forward ends connected by a pivot pin 13 to the upper end of an arm or lever 14 that is pivotally mounted intermediate its ends between the lower portions of the forward ends of the fins 4^a, as upon a pin 15.

The lower end portion of the lever 14 is divided, or bifurcated, forming a yoke 14^a. Said yoke is designed to have the opposite members, or arms, thereof disposed at opposite sides of a coil block, or reel, 16 upon which is coiled or wound the metal, as bars, strips, wire and the like, as the latter passes from the rolling mill, and is designed normally to occupy the retracted position shown in full lines in Fig. 2. With rocking movement of the lever 14, imparted by rearward reciprocating movement of the piston 11 of the power cylinder 3, the yoke is swung forward to the position shown in broken lines in Fig. 2. In such forward movement of the yoke, block-like terminals 18 carried by the yoke arms engage the rear end of the coil of metal borne by the reel and forcibly thrust said coil forwardly from the reel.

Following stripping of the coiled metal from the reel, the piston is advanced to its forward position for actuating the stripping yoke to return to its retracted position.

The apparatus described provides mechanical means whereby coils of metal may promptly and positively be stripped from the reel and by the use of which a substantial economy is effected.

What is claimed is—

Mechanism for stripping from a reel metal coiled thereon, comprising a supporting stand including legs surmounted by a bed which is located above and rearwardly of the reel, a lever pivotally mounted on said stand in a substantially vertical position and having a yoke formed on the lower end thereof and adapted to be disposed in straddling relation to the reel, members forming horizontal guideways borne by said stand, slide blocks movable in said guideways and having link connection with the upper end of said lever, a power cylinder surmounting said stand, a piston in said cylinder, a piston rod intermediate said piston and said slide blocks and actuating the latter whereby is imparted to the lever a swinging movement for advancing the yoke arms substantially parallel to the axis of the reel.

In testimony whereof, I affix my signature.

FRANK E. FLYNN.