

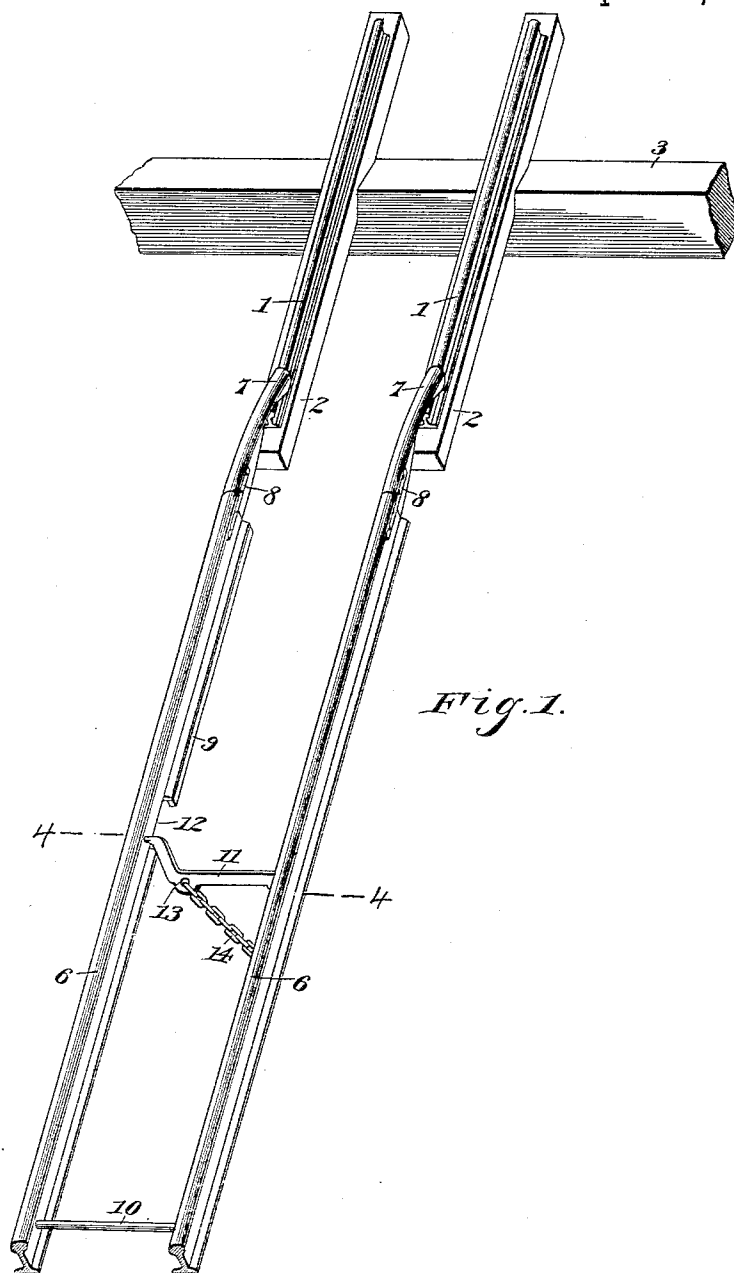
(No Model.)

4 Sheets—Sheet 1.

H. HALL.
GODEVIL.

No. 504,725.

Patented Sept. 12, 1893.



Witnesses;

M. Wetherow
E. C. Julian

Inventor

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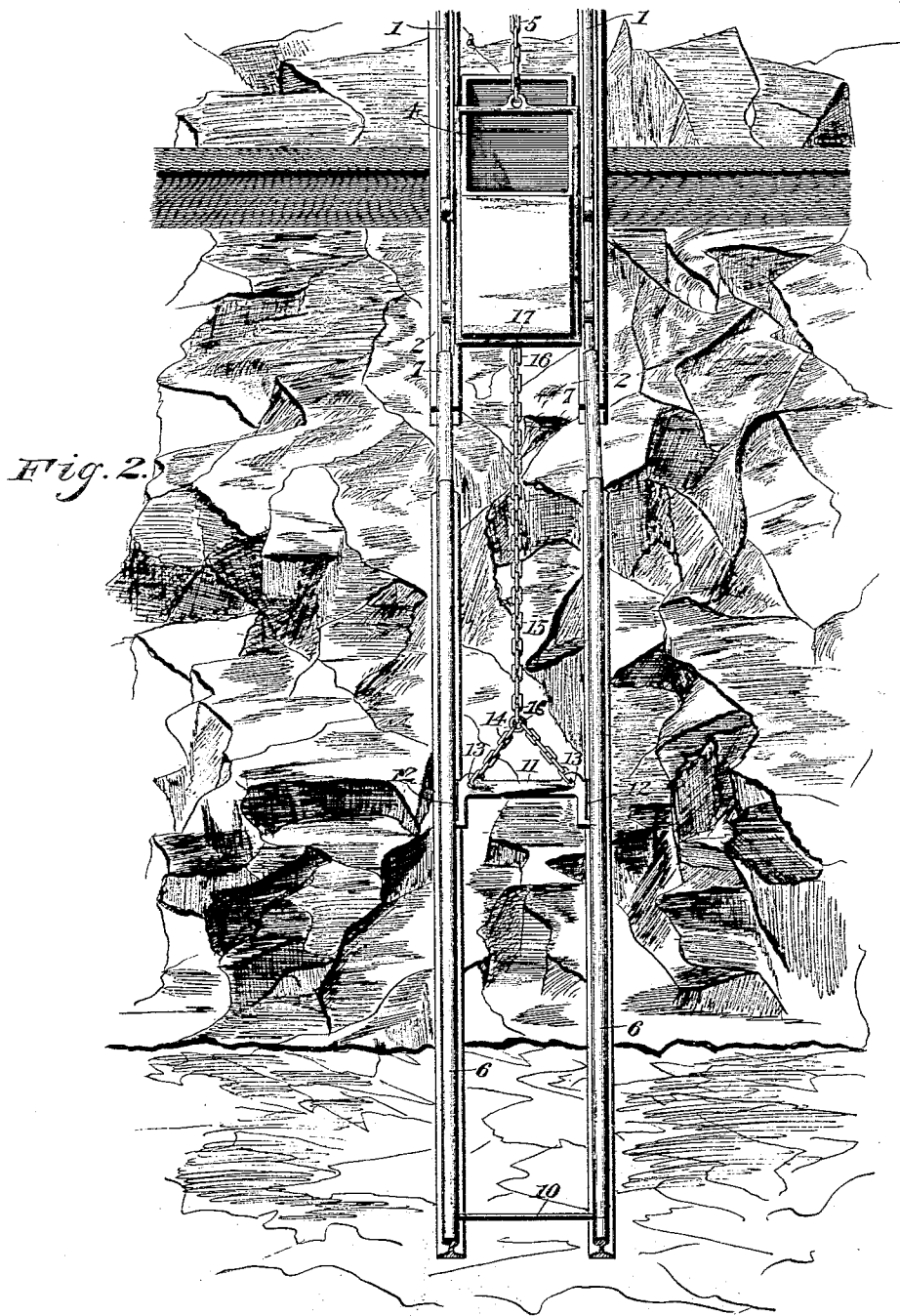
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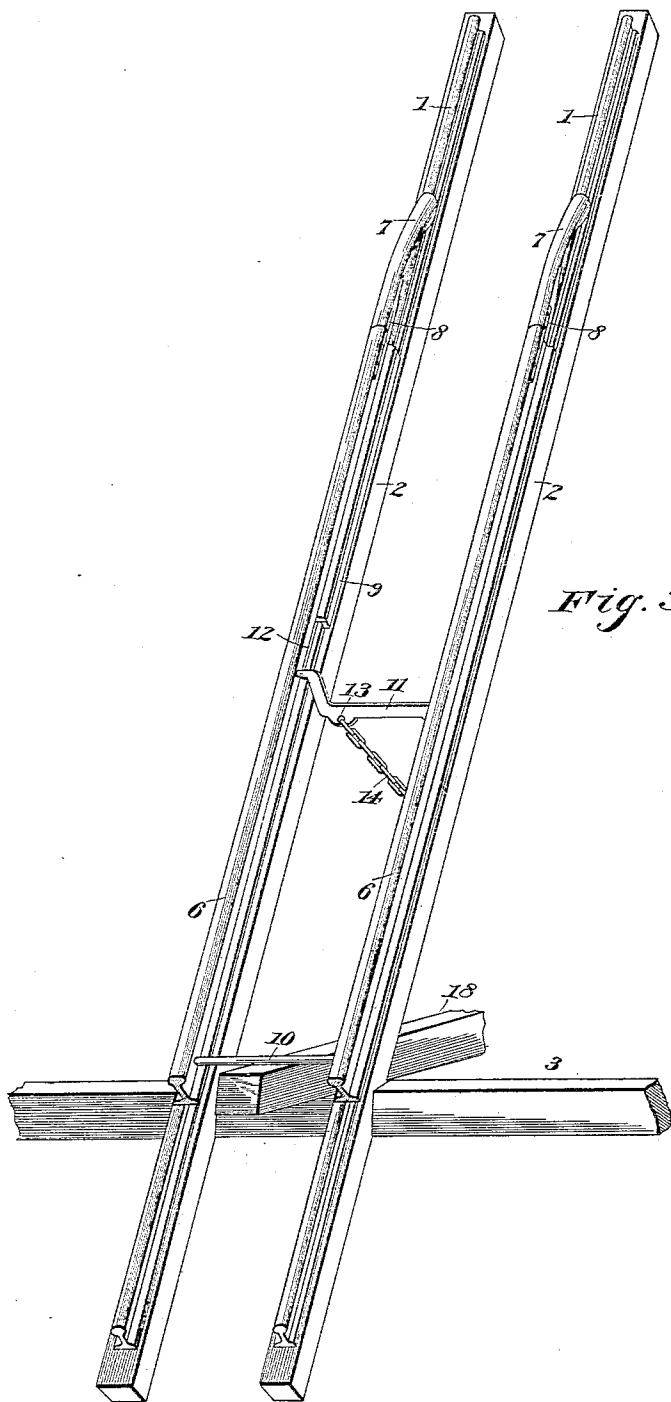


Fig. 3.

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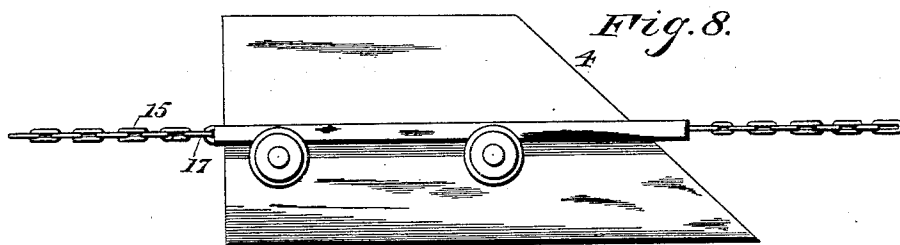
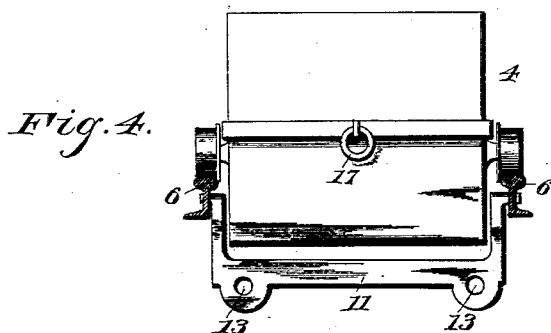


Fig. 6.



Fig. 7.

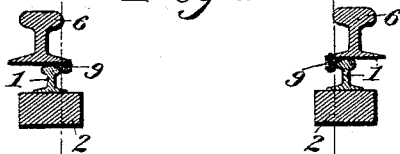
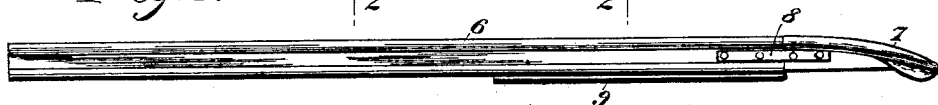


Fig. 5.



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UNITED STATES PATENT OFFICE.

HENRY HALL, OF HILL CITY, SOUTH DAKOTA, ASSIGNOR OF TWO-THIRDS
TO HENRY HERBERT HALL, OF SAME PLACE, AND JOHN L. BUCKING-
HAM, OF HERMOSA, SOUTH DAKOTA.

GODEVIL.

SPECIFICATION forming part of Letters Patent No. 504,725, dated September 12, 1893.

Application filed December 15, 1892. Serial No. 455,252. (No model.)

To all whom it may concern:

Be it known that I, HENRY HALL, of Hill City, county of Pennington, and State of South Dakota, have invented certain new and useful
5 Improvements in Godevils, of which the following is a specification, reference being had to the accompanying drawings.

The object of my invention is to provide
10 suitable and convenient means for preventing injuries to the main track or other machinery when blasts are fired in the bottom of a mine.

My invention in the main consists in a separate movable section of track or godevil,
15 which may be lifted out of reach of the shots, and which may be conveniently lowered again for use as a permanent track.

My invention is specially applicable to use
20 in inclined shafts, but may be applied to any use to which it is adapted.

In the accompanying drawings—Figure 1 shows the godevil in position in the bottom of a track. Fig. 2 shows it in position for being
25 hoisted out. Fig. 3 shows it separated from the skip and supported above the bottom of the track. Fig. 4 is a central vertical section on the line 4, 4 of Fig. 1, showing also the skip upon the godevil. Fig. 5 is a side elevation of the godevil detached. Fig. 6 is an end
30 view of one of the noses which guide the godevil on the main track. Fig. 7 shows in cross section the relative position of the godevil and main track. Fig. 8 is a side elevation of the skip.

Referring to the figures on the drawings, 1
35 indicates a track of any suitable and ordinary construction carried in any suitable manner, as upon stringers 2 and cross pieces 3. It is designed to carry a skip 4 that is adapted to be
40 raised and lowered upon the track by means of a rope 5.

6 indicates the side pieces of my godevil, which are preferably made of metal and provided with noses 7 secured thereto by fish-
45 plates 8.

9 indicates inner guide ribs which are designed to slide within the rails which form the main track, and to cause it to move

steadily and evenly along the same. The side pieces are united by an end cross piece 10 and
50 by a bail 11 pivoted near the central part of the godevil. The bottom flanges of the side pieces are cut away, as indicated at 12, to permit the oscillation of the bail. The bail is depressed in its middle part, as illustrated,
55 and is designed to permit the free movement over it of the skip. As illustrated in Fig. 7 of the drawings, the inner sides of the top flanges of the main track rails and the godevil side pieces are in vertical alignment, so that
60 the skip moves with equal precision upon either the main track or the godevil.

13 indicates apertures in the sides of the bail, to which a bail-chain 14 is attached.

15 indicates a chain provided with hooks 16
65 at its opposite ends, which are designed to hook into the bail-chain and into an eyelet 17 in the bottom of the skip respectively.

In operation the godevil is fastened to the bottom of the skip by the chain 15, and both
70 are lowered by gravity to the bottom of the shaft. The end of the main track does not reach to the bottom of the shaft by nearly the length of the godevil, and the latter fills up the intervening space when lowered, as in
75 the manner above described. When the godevil has reached the bottom of the shaft, the chain 15 is unhooked from the bail and from the skip, the bail swings into the position shown in Figs. 1 and 4 of the drawings, and
80 the skip may descend to the bottom of the shaft upon the godevil passing over the bail, as illustrated in the latter figure. When it is desired to blast in the bottom of the shaft, the chain 15 is again hooked to the godevil
85 and to the bottom of the skip, and the two are drawn up again a suitable distance. When the godevil has been raised a sufficient distance a supporting piece 18 may be inserted underneath the cross-piece, and the godevil
90 held in position. After the shot has been fired, the chain 15 may be again attached to the godevil and the skip and the godevil lowered as before.

I desire it to be understood that I do not
95 limit myself to the details of construction

herein described, but desire to reserve the right to vary them at will within the scope of my invention.

What I claim is—

- 5 1. The combination with a main track, of a godevil consisting of side pieces and noses thereon for guiding the same upon the main track, and means for raising and lowering the godevil, substantially as set forth.
- 10 2. In a godevil adapted to be raised and lowered upon a main track, the combination with side pieces having noses an end cross piece, and an oscillatory bail connecting the side pieces near their middle, substantially
- 15 as and for the purpose specified.
3. The combination with a main track, of a godevil having side pieces in vertical align-

ment therewith, guiding noses and ribs upon the side pieces and end cross-piece and oscillatory bail, substantially as and for the purpose specified.

4. The combination with a main track, a godevil adapted to carry a skip from the main track to the bottom of a shaft, a cross-piece upon the godevil, and a supporting piece adapted to be inserted underneath the same upon the main track, substantially as and for the purpose specified.

In testimony of all which I have hereunto subscribed my name.

HENRY HALL.

Witnesses:

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