E. SCHOLLE.

SCOTCH BLOCK WITH ROLLER.

APPLICATION FILED JUNE 6, 1914.

1,108,627. Patented Aug. 25, 1914.

Fig. 1.

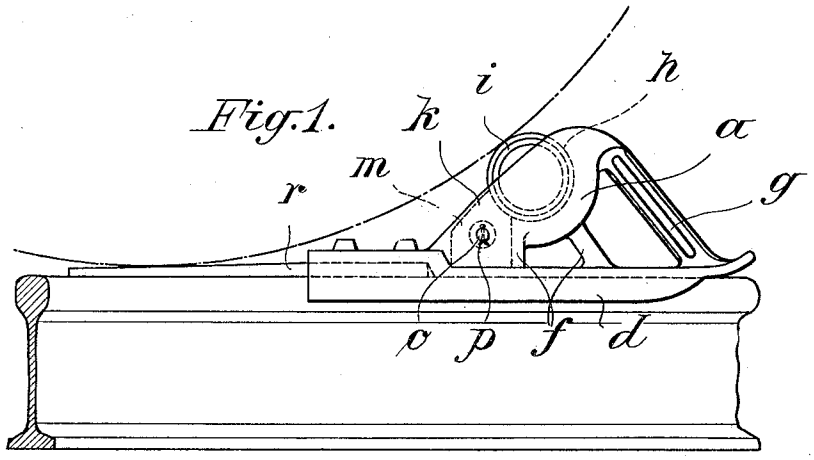


Fig. 2, A-B.

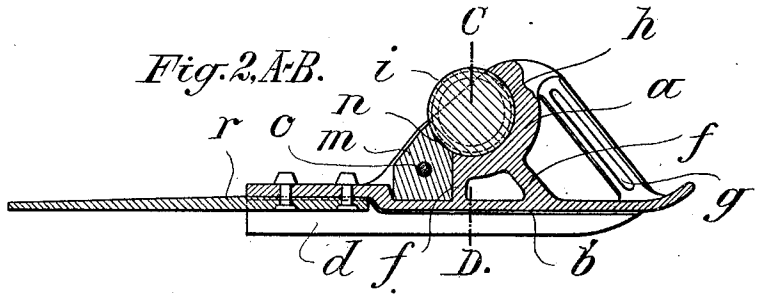


Fig. 3.

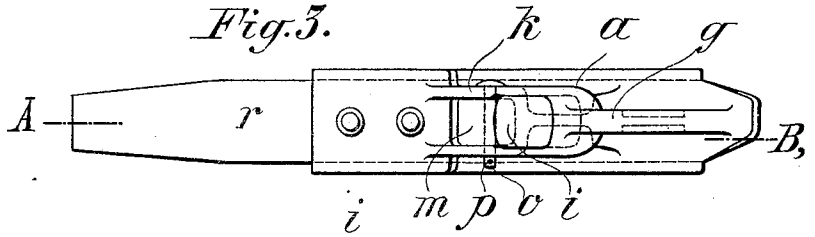
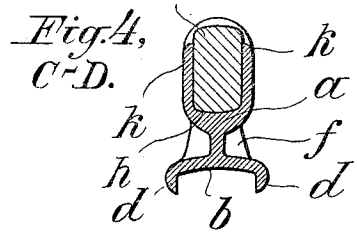


Fig. 4, C-D.



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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

EDUARD SCHOLLE, OF NEUSS, GERMANY, ASSIGNOR TO THE FIRM OF WECKS & CO., PROPRIETORS MESSRS. GRAF, KELLER AND JOST, OF OBERHAUSEN, RHINELAND, GERMANY.

SCOTCH-BLOCK WITH ROLLER.

1,108,627. Specification of Letters Patent. **Patented Aug. 25, 1914.**

Application filed June 6, 1914. Serial No. 843,357.

To all whom it may concern:

Be it known that I, EDUARD SCHOLLE, engineer, a subject of the German Emperor, and residing at 104 Sternstrasse, Neuss-on-the-Rhine, Germany, have invented certain new and useful Improvements in Scotch-Blocks with Rollers, of which the following is a statement.

The present invention relates to a scotch block with roller for wagons running on rails. Compared to other known devices of this kind, the subject matter of the present invention is characterized in that the loose roller, which has no pin, is held in its bearing on the strongly designed scotch block, made in one piece, by means of an accurately fitted, but readily detachable part, and that the tongue is detachably fitted to the body of the scotch block, so that it may be easily exchanged when worn.

In the accompanying drawing Figure 1 is a side elevation, Fig. 2 a longitudinal section on the line A—B in Fig. 3, Fig. 3 is a plan, and Fig. 4 a cross section on the line C—D in Fig. 2.

The strongly designed body of the scotch block *a* has below a sliding surface *b* which is profiled so as to correspond to the profile of the rail, and along the two sides are provided two ledges *d*, which bear against the sides of the rail and thus prevent the block from slipping off. On the top is provided a pan *h* strongly supported by webs *f* and a brace *g*, which carries the roller *i*. This pan encircles not more than one half of the periphery of the roller, so that the latter can be easily fitted into the pan. At the sides *k* the pan is extended toward the front, thereby forming an open chamber, into which an accurately fitted block *m* is placed, which is hollowed on the upper side in a manner corresponding exactly to the curve of the pan, this curvature of the block *n* bearing against the roller *i* and holding the same in its pan *h*. The block *m* is secured in its position by means of a bolt *o* penetrating the walls *k*, and secured against falling out by means of a split pin *p*. At the front end the ledge forming the sliding surface *b* is slightly set-off in an upward direction, so that the underside of the tongue *r* which is here detachably fitted, lies in one plane with the gliding surface *b*. In consequence thereof the tongue will bear flat on the rail when the scotch block is laid onto the latter.

The wheel of the wagon running on the rail will ride onto the tongue and abut against the roller *i* (Fig. 1). As, now, this roller revolves, the wagon wheel cannot override it. The pressure of the wagon wheel presses the scotch block against the rail, so that the friction caused by its gliding will gradually absorb the momentum of the wagon.

When the roller *i* has worn, it may be readily and quickly exchanged by simply removing the block *m*. Also the tongue which is subject to wear, can be readily exchanged for a new one.

I claim:

Scotch block with roller consisting of a strongly designed body, said body having on its underside a gliding surface and in front of the same a readily exchangeable tongue, on the top of said body a pan, in said pan a pinless roller, a separate extension of said pan, supporting the roller therein, said extension consisting of a block detachably secured in position by means of a bolt penetrating the sides of the pan, and having means to secure it in position.

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

EDUARD SCHOLLE.

Witnesses:
LOUIS VANDORY,
GUSTAV BROCKSCHMITZ.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."