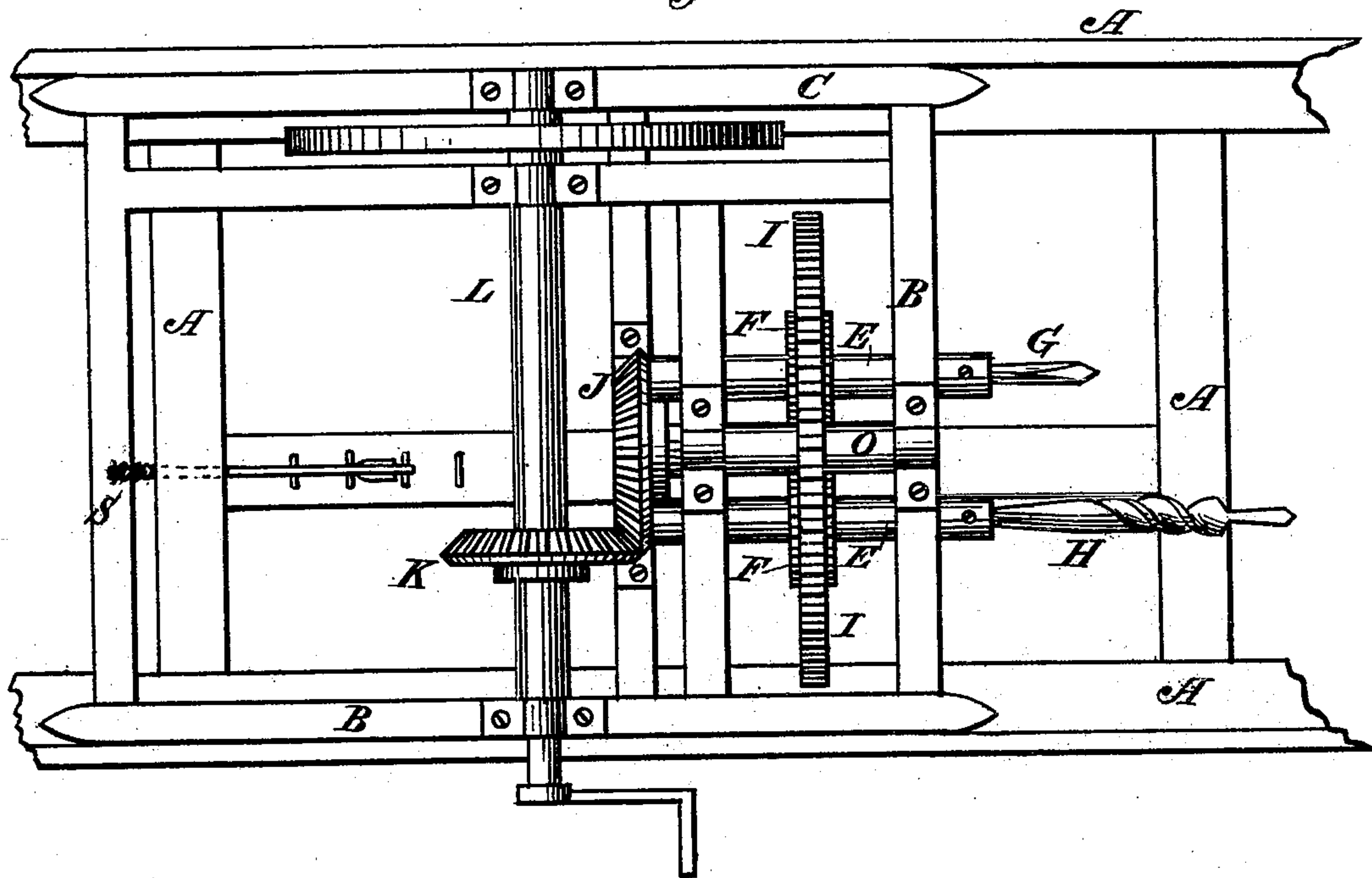


J. PRICE.  
Coal-Drilling Machine.

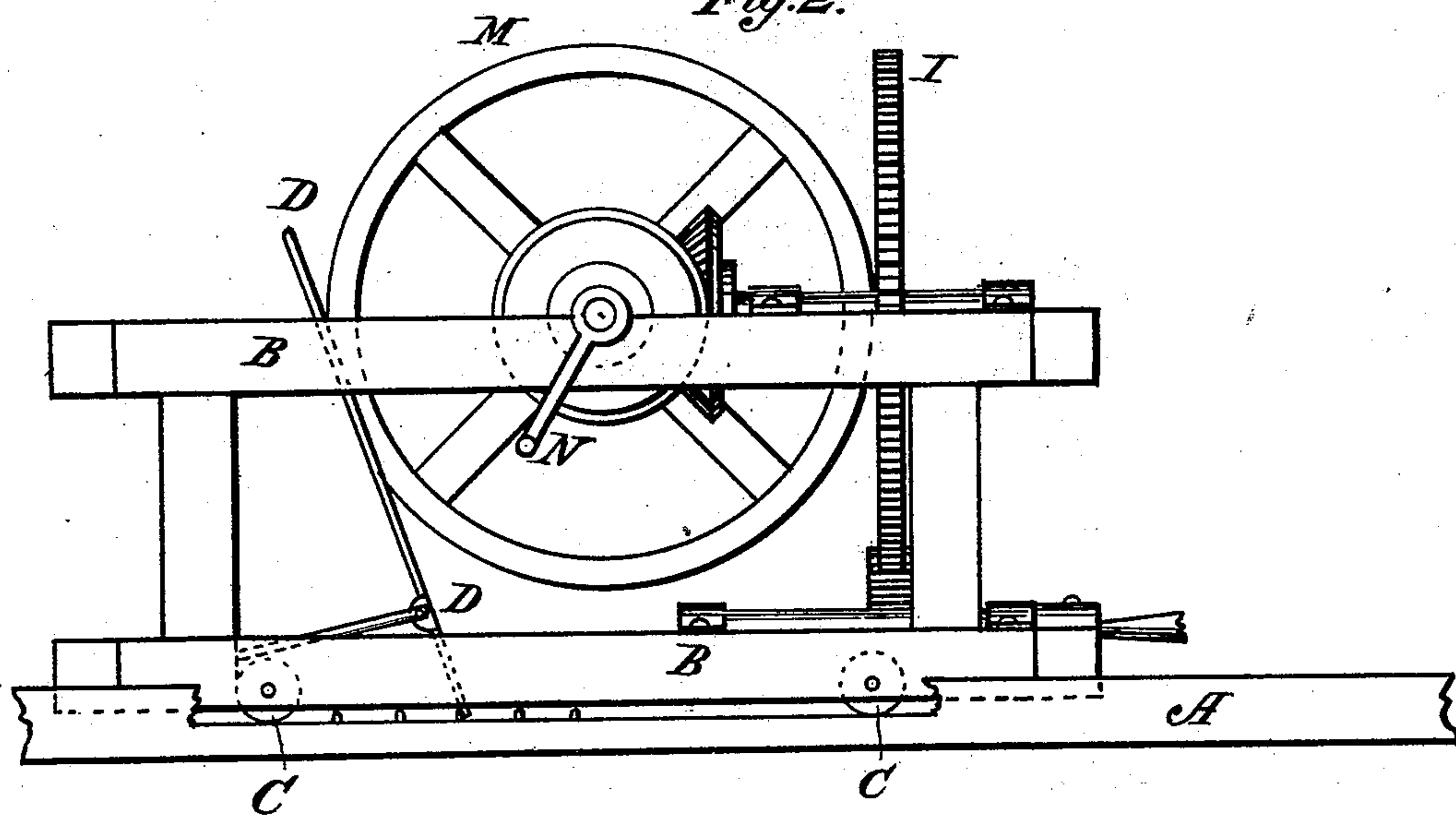
No. 202,372.

Patented April 16, 1878.

*Fig. 1.*



*Fig. 2.*



Attest:  
F. H. Smith.  
D. P. Cowl

Inventor:  
John Price  
By Daniel Breed Att.

# UNITED STATES PATENT OFFICE.

JOHN PRICE, OF LEAVITT, ASSIGNOR TO ANDREW M. PRICE AND JAS. C. PRICE, OF CARROLL COUNTY, OHIO.

## IMPROVEMENT IN COAL-DRILLING MACHINES.

Specification forming part of Letters Patent No. 202,372, dated April 16, 1878; application filed May 17, 1877.

*To all whom it may concern:*

Be it known that I, JOHN PRICE, of Leavitt, in the county of Carroll and State of Ohio, have invented certain new and useful Improvements in Machines for Drilling Coal, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention consists of a novel machine for inbearing and drilling in coal-mines, which will be fully understood by the following description.

Figure 1 represents the top view of my machine, and Fig. 2 is a side view of the same.

My machine is to be supported on a movable track or bed, A, which is placed in proper position, with the machine thereon, and the drills pointing toward the bed of coal to be worked. The frame B of the machine is provided with trucks C, which travel upon the track-bed A, and a lever, D, and a spring, S, are employed to gently press the machine forward as the process of drilling goes on. On the lower part of the frame B are placed two or more shafts or axles, E, provided with gear-wheels F, and sockets to hold the drills or augers G and H. These gear-wheels F receive motion from the larger wheel I, upon the shaft of which is a wheel, J, gearing with

the wheel K on the shaft L, which is provided with a balance-wheel, M, and may be moved by a crank, N, or by any other suitable power, to give motion to the whole machine.

It may be mentioned that the position of the drills on the lower part of the frame adapt the machine drilling at the base of the stratum of coal, which may thus be easily honey-combed and then picked out; or my machine may be used for drilling and blasting, the front of the machine being elevated when it is desired to drill near the top of the mine.

The auger H has a regular drill-point, and also a worm-rimmer of larger diameter, which I find of great value in working coal.

Having fully described my machine, what I claim is—

1. The arrangement and combination of the pinions F F and shafts E E, the gear-wheel I, its shaft O, the bevel-gear wheels J and K, and the driving-shaft L, all operating together, substantially in the manner and for the purposes set forth.

2. The lever D and spring S, for gently pressing the machine and drills to the work, substantially as set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JOHN PRICE.

Witnesses:

W. D. SHEARER,  
CYRUS D. FISHER.