

piece connected to the bolster, and spring-supported bearings in said yoke-piece for the shaft-section, substantially as described.

12. In a locomotive, the combination, with  
3 the main frame, the driving-engines mounted  
thereon, and a short fixed section of the main  
driving-shaft secured thereto, of two trucks  
pivotally connected to and supporting the  
10 frame, gears connected to the outside axles  
of the trucks, a short shaft-section mounted  
on each truck and connected to the axle, a  
relatively-long floating shaft-section between  
each truck-section and the main fixed section  
15 of the shaft, and knuckle-joints connecting  
the shaft-sections, substantially as described.

13. In a locomotive-engine, the combination,  
with the truck, of a brake device consisting,  
essentially, of brake-shoes, rods connecting  
said brake-shoes, a U-shaped lever connected  
20 to said rods, and connections between said U-  
shaped lever and the brake-cylinder, substan-  
tially as described.

14. In a locomotive-engine, the combination,  
with the main frame, of a driving-engine sup-  
25 ported thereon, the pivoted trucks supporting  
the same, the brake-shoes arranged on the  
inner sides of the wheel, a U-shaped lever  
mounted on the truck and connected to the  
brake-shoes, and a brake-cylinder mounted  
30 on the engine and connected to the lever, sub-  
stantially as described.

15. In a locomotive-engine, the combination,  
with the main frame, of the driving-engines

mounted thereon, a longitudinal driving-shaft,  
trucks supporting the engine, shaft-sections 35  
mounted on the trucks and connected with  
the extreme axles, a floating shaft-section be-  
tween the truck and the driving-engine, a  
brake mechanism mounted on the trucks,  
each having a U-shaped lever, tension-rods 40  
connected to the levers and passing above  
the apex of the engines, a brake-cylinder lo-  
cated on the frame, and connections between  
the brake-cylinder and tension-rods, substan-  
tially as described. Geared Steam Locomotive Works 45

16. In a locomotive-engine mounted upon  
trucks and having a centrally-located longi-  
tudinal shaft connecting the trucks, the com-  
bination of the boiler having a cylindrical  
shell inclosing the fire-box and ash-pan, lo- 50  
cated above the longitudinal central shaft  
and the engines arranged at an angle to each  
other and connected to the said shaft, sub-  
stantially as described. www.gearedsteam.com

17. In a locomotive-engine having a longi- 55  
tudinal centrally-located shaft, a truck hav-  
ing a substantially U-shaped brake-lever, the  
lower ends of which are connected to the  
brake device, substantially as described.

In testimony whereof I have signed my 60  
name to this specification in the presence of  
two subscribing witnesses.

CHARLES L. HEISLER.

Witnesses:

ELTON D. WARNER,  
J. K. PATTERSON, Jr.