power for its trains in the B.C. mountain sections, recalls the fact that the Baltimore and Ohio Rd. some time ago made an exhaustive inquiry into the feasibility of operating trains over the 17-mile grade in the Alleghanies with electric power. It was found, however, that the expenditure of several millions of dollars would be necessary to put such a system in operation at that point. The track would have to be relaid with 100 lb. rails and electrical locomotives weighing 120 tons would have to be built for the service. Nevertheless, the electrical system of operating might have been introduced on the mountain had the engineers been able to find adequate water supply to drive the dynamos which would manufacture the necessary electricity. No suitable stream could be discovered, and the idea was abandoned for the time being and no evidence of its being revived has been recently observed. To operate the dynamos by steam would be too expensive. In B.C. the C.P.R. has at its disposal abundance of water power.

The Quebec & Lake St. John Ry. has ordered from the Baldwin Locomotive Works 2 mogul freight locomotives, to be delivered by Feb. Following are the general dimen-

Cylinder, diameter (high pressure)	20 in.
" stroke	26 in.
" valve	Balanced
Boiler, diameter	64 in.
" thickness of sheets	
" working preceure	200 lbs.
" fuel	
Firebox, material	
" length	108 in.

	x, width			42 in
**				
**	'' (back	:)		
**	thickness of	fsheets-	-sides	5-16 in.
**	• •	••	back	5-16 in.
	**	••	crown	3-8 in.
• •	**	••	tube	½ ın.
Tubes,	material			1ron
• •	number			abt. 262
**	diameter			2 in.
**	length		, , ,	. 12 ft. 6 in.
Drivin	g wheels, dia:	meter ou	tsideentre	57 in.
	" dia:	meter of a	centre	50 in.
	" jou	rnals	8	in. x io in.
Engine	e Truck Whee	els (front		30 in.
		••	journals5	in. x io in.
Wheel	Base, driving	g		. 14 ft. o in.
	rigid .	<u></u> .		. 14 It. o in.
	totare	ngine		. 22 ft. 2 in.
	" total e	ngine an	d tender	. abt. 52 ft.
Weigh	it on driving	wheels .	abt.	117,000 lbs.
Tende	r, diameter of	wheels.	. .	33 in.
	journals		4	4 in. x 8 in.
	tank capaci	ıty		.5,000 gais.
Th	e C.P.R.	recent	tly received	from the
			Co. eight o	
conse	olidation f	reight	locomotives,	one or
whic	h is illustra	ated or	1 раде 13. – Е	E. A. Wil-
liams	s. Superinte	endent	of Machinery	and Rol-
line	Stook has	furnick	ed us with th	e general
mig.	Stock, has		icu us with th	c general

dimensions, as follows:-Total weight in working order......159,500 lbs

Weight on drivers
on truck
" of tender, loaded
Total weight of engine and tender273,500 lbs.
Total wheel base of engine 23 ft. 7 in.
Rigid wheel base 15 ft. 8 in.
Total wheel base, engine and tender 51 ft. 8 in.
Simple or Compound
SystemSchenectady
Cylinders 22 and 35 x 28 in.
Driving wheels, dia. on tread
" centres
" axle boxes
•

Driving wheels, axle journals (main)
trailing Six ruin
trailing
" wheels, Allan No. 7 steel tired30 in. dia.
Crank-pin journal (main), nickel steel
" main (side rod), nickel steel
" intermediate, nickel steel 5½ x 4½ in.
front and back 5 x 3½ in.
Engine truck
front and back 5 x 3½ in. Engine truck Swing bolster Boiler, extended wagon-top with wide fire box over
Working steam pressure
Working steam pressure
" of tubes, outside in.
Number of tubes
Length of tubes 14 ft. 3 in.
of firebox 9 ft. 1/2 in.
Width of firebox 5 ft. 5 in.
Depth of firebox front, 4 ft, 61 in.; back, 5 ft. 21 in.
Radial stays (Taylor iron)in in. dia.
Stay-bolts (Taylor iron) in. dia.
Boiler material (steel) ½ in., § in., 11 in. and 3 in.
Heating surface, firebox 134.37 sq. ft.
" tubes
" " total 2.218 s. so ft
" total 2,218.54 sq. ft. Grate " 43.64 sq. ft.
" type
Tender:
Tank capacity
Coal capacity
Tank MaterialStee
Frame 10 in. steel channe
Truck
AxlesSteel, 5½ x 10 in
Wheels Cast iron, 33 in. dia

Four similar compound locomotives have been received by the C.P.R. from the Canadian Locomotive Co. The C.P.R. has placed an order with the American Locomotive Co. for 12 additional similar locomotives for September delivery, and for three 10-wheel passenger locomotives. The latter will be duplicates of the 12 the Co. is building in its Montreal shops, the general dimensions of which

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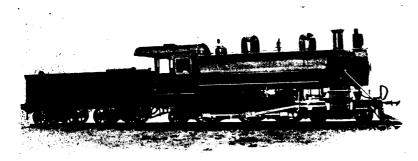
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