LOGAL ENGINEER

ON PROPELLORS

J. K. Rebbeck of British Cor-

poration Has Improved

DIFFICULT PROBLEM

Contract Binding the Private sur White Elephant

tern Division May Prove
White Elephant

Ottawa, July 3.—Difficulties are accumulating for the National Transcontinental Railway project. On the same day, this week two events of a very serious nature occurred as in the same day, this week two events of a very serious nature occurred as in the same day, this week two events of a very serious nature occurred as in the same day, this week two events of a very serious nature occurred as in the same day, this week two events of a very serious nature occurred as in the same day, the same day is described in the same day. The same serious that the same day is described in the same day is a same serious to the same day, the same serious characteristics of the same days have been built for the same days and the serious of the same days have been that his offence lies in having agreed with the engineers of the Grand Trunk Picific that the line has been built of the same serious that his offence lies in having agreed with the engineers of the Grand Trunk Picific that the line has been built of the same serious to make the three engineers, Mr. Fitzmanules of the same serious to make the conjunction of the same serious to make the three engineers, Mr. Fitzmanules of the same serious to make the same serious that the same serious to make the same serious that the same se

Mr. Lumsden's resignation will at once recall the Hodgins charges, of which it is in a sense a development. It will be remembered that in 1908, Major Hodgins, an experienced engineer, a Liberal, who was in charge of this same district, extending from Winnipeg to Superior Junction, made serious charges as to the prevalence of over-classification on his division.

COST OF EAST

ONUSION

Contract Binding the Private Company to Take Over Eastern Division May Prove

White Flephant

The corps the service without the aid of a bridge of the G. T. P. system is in working the water that the corporate of the G. T. P. system is in working to the G. T. P. to shipping its western wheat across the Atlantic by Portland.

With regard to the Winnipeg to Superior Junction section, it must be remembered that this section is absolutely necessary to the G.T. P. By using the National Transcontinental to Superior Junction, and its own branch lines, from that point to Port Arthur, the G. T. P. can get to the Great Lakes and can use water transport to get the western freight to the Georgian Bay ports, from, which it can easily be forwarded to Montreal and Portland. ports, from which it can easily be forwarded to Montreal and Portland

tenting spired the strongers over the Management of the control of a similar first presented in the sould of the control of th

lieries

this same district, extending from Winnipeg to Superior Junction, made serious charges as to the prevalence of over-classification on his division. His charges presented two aspects; He charged that over-classification was prevailing; and he further charged that over-classification was belied by the House of Commons, and was turned by the majority of the commissed into an investigation was belied by the House of Commons, and was turned by the majority of the commissed into an investigation was belied to the subject of the sub

the day is over. The detective bureau has been flooded today with inquiries steady stream of accusations of bigamy concerning Johnson, or Madson, and a was unrolled before the prisoner, Johnson appeared cheerful under the gathering data on his alleged extensive matrimonial career and his face at times indicated that he found a little amusement in the general disturbance his arrest has caused. ROYAL FAMILY

While Nordica and John McCormaco Entertained at Brilliant Dinner and Dance

WERE GUESTS

London, July 10 .- Practically all the members of the royal family now in London were the guests of Dorchester London were the guests of Dorchester House this evening on the occasion of the dinner and dance given by the American Ambassador, and Mrs. Whitelaw Reid, in honor of the King and Queen and Princess Victoria. The dance that followed the dinner was a brilliant affair. The music was on even grander scale than usual; Mme. Nordica and John McCormack, the Irish tenor, contributed soloes. The King will go to Rest Park on July 24 to spend the week-end with Ambassador and Mrs. Reid.

Notorious Woman, a Chinaman and White Resident of Coal City Had Unique Journey to Victoria

Levanting from Nanaimo and driv-Levanting from Nanaimo and driving the entire distance to Victoria
only to run into the hands of the local
police authorities, and be arrested,
was the fate of a couple who yesterday were gathered in on complaint of
of the liveryman from whom they
rented a horse and rig at Ladysmith,
but falled to return with it.
The woman in the case one of the The woman, in the case, one of the

ARBLE AT NOTKA

at Northern Point is Turning Summ Magniferent Genemes—Exhibited in Northern Point deathern of the Commence of to spend the week-end with Ambas most notorious females on the coast, and one well known to the local police authorities, was none other than Mrs. Chan, wife of a Chinese tailor at Nanlimo but better known to the police of Victoria and Seattle as May Earle, or victoria and Seattle as May Earle, and one well known to the police of Victoria and Seattle as May Earle, and one well known to the police of Victoria and Seattle as May Earle, and one well known to the police of Victoria and Seattle as May Earle, and one well known to the local police authorities when the coast, and one well known to the local police authorities was none other than Mrs.

horse and rig, and as the liveryman recovered possession of his property, which Ghiffiths guaranteed to drive back to Ledysmith the pair were allowed to go, the Earle woman being warned to depart from the city. She declared her intention of going to Vancouver, but failed to state whether she would return to her Celestial husband who, she claims, she forced to pay her \$6,000 before she would marry him.

W. LEGHORNS, R. I. Reds, heavy laying strains. Free catalogue. Doug-gan's Poultry Farm, Cobble Hill, B.C. m14

WANTED—Farm with house of about six rooms or more; small acreage; to lease or with option; Comox or northern district preferred out not essential; state pasturage; experienced farmer; good, comfortable, healthy home Full particulars early to A.B.C., Stratheons Hotel, Shawnigan Lake.

near the southwest corner of Section 3
Township 26, and marked J. R.'s S. W.
corner, thence 80 chains north, thence
80 chains east, thence 80 chains south
thence west to point of commencement,
and intended to contain 640 acres.

Dated at Alberni, B.C., June 18, 1903.
J. RENALDI,
Locator.

TAKE NOTICE that I intend to apply to the Hon. Chief Commissioner of Lands for a licence to prospect for coal and petroleum on the following described lands, situated in Rupert Dis-

near the northeast corner of Section 5,
Township 19, and marked R. M. G.'s
N. E. corner, thence 80 chains south,
thence 80 chains west to point of commencement, and intended to contain 640 acres.

Fated at Alberni, B.C., June 18, 1993.
RUBY M. GOW.

J. Renaldi, Agent.

FOTICE.

TAKE NOTICE that I intend to apply
to the Hon. Chief Commissioner of
tands for a licence to prospect for coal
and petroleum on the following detands for a licence to prospect for coal
and petroleum on the following desorthed lands, situated in Rupert District:

Commencing at a post planted on or

Dated at Alberni, B.C., June 16, 1909.

TAKE NOTICE that I intend to apply
to the Hon. Chief Commissioner of
tands for a licence to prospect for coal
and petroleum on the following desorthed lands, situated in Rupert District:

Dated at Alberni, B.C., June 16, 1909.

Take Notice that I intend to apply
to the Hon. Chief Commissioner of
tands for a licence to prospect for coal
and petroleum on the following deoriner, theñoe 80 chains south
the following demear the southwest corner of Section 28,
sorthed lands, situated in Rupert District:

Dated at Alberni, B.C., June 16, 1909.

Take NOTICE that I intend to apply
to the Hon. Chief Commissioner of
tands for a licence to prospect for coal
and petroleum on the following deoriner, theñoe 80 chains south
the southwest corner of Section 28,
southwest corner of Section

riet:
Commencing at a post planted on or hear the northwest corner of Section 4.
Township 19, and marked J. A. G.'s
N. W. corner, thence 80 chains south, thence 80 chains east, thence 80 chains south, thence west to point of commencement and intended to contain 640 and petroleum on the following described lands, situated in Rupert Discovered.

trict.

Commencing at a post planted on or near the southeast corner of Section 8, Township 19, and marked E. P.'s S. E. corner, thence 80 chains north, thence 80 chains west, thence 80 chains south, thence east to point of commencement, and intended to contain 640 acres.

Dated at Alberni, B.C., June 16, 1909.

E. PLUMB.

J. Renaldi, Agent. trict:

Commencing at a post planted on or near the southeast corner of Section 4.

Township 26, and marked W. P.'s 3. E. corner, thence 80 chains north, thence 80 chains south thence east to point of commencement and intended to contain 640 acres.

Dated at Alberni, B.C., June 16, 1909.

W. R. PAYNE. MOTICE.

TAKE NOTICE that I George Locke
Paddon, of Mayne Island, B.C., occupation General Merchant, intend to apply
for permission to lease the following
described land:

Commencing at a post planted on the
north side of the Mayne Island wharf
just where it touches the land; thence
west along the wharf % chain; thence
north 1 chain; thence east % chain;
thence south to commencing post 1
chain; containing one twentleth (1-20)
acre, more or less.

GEORGE LOCKE PADDON,
21st June, 1909.

**TOTICE*

TAKE NOTICE that I intend to apply
to the Hon. Chief Commissioner of
lands for a licence to prospect for coal
and foreshore, and under the land covered by water opposite foreshore, situated in Rupert District, and described
as follows:

Commencing at a post planted on or
near southeast corner of Section 17.
Township 19, and marked D. W. S.
S. E. corner, thence 40 chains north,
thence 180 chains west, thence 40 chains
south, thence east to point of commencement, and intended to contain 640
acres.

MOTICE.

Trict:

Commencing at a post planted on or near the northeast corner of Section 1, Township 26, and marked J. W. M.'s

N. E. corner, thence 80 chains south, thence 30 chains west, thence 80 chains south, thence -east to point of commencement and intended to contain 640 cares.

Dated at Alberni, B.C., June 16, 1909.

J. W. MORROW.

J. Renaldi, Agent.

TAKE NOTICE that I intend to apply to the Hon. Chief Commissioner of Lands for a licence to prospect for coal and petroleum on the following described lands, situated in Rupert District:

Commencing at a post planted on or near the northwest corner of Section 31.

Lated at Alberni, B.C.. June 16, 1909.
J. W. MORROW.
J. Renaldi, Agent.

TAKE NOTICE.

TAKE NOTICE that I intend to apply to the Hon. Chief Commissioner of Lands for a licence to prospect for coal and petroleum on the following described lands, situated in Rupert District:

Scribed lands, situated in Rupert District:

commencing at a post planted on or near the northwest corner of Section 31.

Township 18, and marked E. L's N. W. corner, thence 80 chains south, thence 80 chains east, thence 80 chains north, thence we to point of commencement and intended to contain 640 acres.

Dated at Alberni, B.C..

Dated at Alberni, B.C..

EMILY LAWSON.

J. Renaldi, Agent. scribed lands, situated in Report 2

trict:

Commencing at a post planted on or near southwest corner of Section 7, Township 19, and marked W. B. S. W. corner, thence 80 chains north, thence 80 chains south, thence to point of commencement and intended to contain 640 acres.

Dated at Alberni, B.C., June 16, 1969.

W. BOWS.

J. Renaldi, Agent.

TAKE NOTICE that I intend to apply to the Hon. Chief. Commissioner of Lands for a licence to prospect for coal and petroleum on the following described at Alberni, B.C., June 16, 1969.

W. BOWS.

Commencing at a post planted on or near the northeast corner of Section 5.

mencement and intended to contain vosciones are series.

Dated at Alberni, B.C., June 16, 1909.

J. A. GOW.

J. Renaldi, Agent.

TAKE NOTICE.

TAKE NOTICE that I intend to apply to the Hon. Chief Commissioner of Lands for a licence to prospect for coal and petroleum on the following described lands, situated in Rupert District:

STAKE NOTICE that I intend to apply to the Hon. Chief Commissioner of Lands for a licence to prospect for coal and petroleum on the following described lands, situated in Rupert District:

STAKE NOTICE that I intend to apply to the Hon. Chief Commissioner of Lands for a licence to prospect for coal and petroleum on the following described lands, situated in Rupert District.

Dated at Alberni, B.C., June 16, 1909.

home Full particulars early to A. B. C., Strathcona Hotel, Shawnisseribed lands, situated in Rupert Disscribed lands, situ

TAKE NOTICE that I intend to apply to the Hon. Chief Commissioner of Lands for a licence to prospect for coal and petroleum on the following de-scribed lands, situated in Rupert Dis-

TAKE NOTICE that I intend to apply to the Hon. Chief Commissioner of Lands for a licence to prospect for coal and petroleum on the following described lands, situated in Rupert District: scrived lands, situated in Ruper District:
Commencing at a post planted on or near the northwest corner of Section 34.
Township 27, and marked G. H.'s N. W. corner, thence 80 chains south, thence 80 chains south, thence 80 chains east, thence 80 chains north thence west to point of commencement, and intended to contain 640 acres.

Dated at Alberni, B.C., June 18, 1909.
G. HUNTER. Dated at Alberni, B.C., June 18, 1909.
D. W. STAERMAN,
J. Renaldi, Agent.

sand petroleum on the following described lands, situated in Rupert District:

Commencing at a post planted on or near the northeast corner of Section 33, Township 27, and marked P. M. W.'s N. E. corner, thence 80 chains south thence 30 chains west, thence 80 chains south thence ask to point of commencement, and intended to contain 640 acres.

Dated at Alberni, B.C., June 16, 1909.

ECOMMENCIAL SECTION.

TAKE NOTICE that I intend to apply to the Hon. Chief Commissioner of Lands for a licence to prospect for coal and foreshore and under the lands covered by water opposite foreshore, situated in Rupert District and described ask follows:

ECOMMENCIAL SECTION ASSISTANCE THAT I intend to apply to the Hon. Chief Commissioner of Lands for a licence to prospect for coal and petroleum on the following described lands, situated in Rupert District:

Commencing at a post planted on or near Section 22, Township 19, thence 80 chains south, thence ask to point of commencement, and intended to contain 640 acres.

Dated at Alberni, B.C., June 16, 1909.

TAKE NOTICE that I intend to apply to the Hon. Chief Commissioner of Lands for a licence to prospect for coal and petroleum on the following described lands, situated in Rupert District:

Commencing at a post planted on or large the lands of the Hon. Chief Commissioner of Lands for a licence to prospect for coal and petroleum on the following described lands, situated in Rupert District:

Commencing at a post planted on or near Section 10, Township 19, thence 80 chains south, thence 80 chains south, thence east to point of commencement, and intended to contain 640 acres.

Dated at Alberni, B.C., June 16, 1909.

TAKE NOTICE that I intend to apply to the Hon. Chief Commissioner of Lands for a licence 80 chains south, thence 80 chains south, thence 80 chains south, thence 80 chains south there were prospect for coal and petroleum on the following described lands, situated in Rupert Dist

of the Woodmen of the World, will be a feature of the day with substantial cash prizes as an inducement for the members of various, teams to devote considerable time to practice.

Man Arrested in 'Frisco Danies He is Husband of a Score of Wives and Smiles at Disturbance

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Man Arrested in 'Frisco Danies He is Husband of a Score of Mives and Disturbance

Man Arrested in 'Frisco Danies He is He is the morth set of the world is an inducement for the members of various teams to Planted on Score of Mives and Disturbance of Scotion 5 and petroleum on the following described lands, situated in Rupert Disturbance of Scotion 5 and petroleum on the following described lands, situated in Rupert Disturbance of Scotion 5 and petroleum on the following described lands, situated in Rupert Disturbance of National Planted Nations of Mixer He Hench Chief Commissioner of Commencing at a post planted on or near the northwest corner of Section 15 and

TAKE NOTICE that I intend to apply to the Hon. Chief Commissioner of Lands for a licence to prospect for coa and petroleum on the following described lands, situated in Rupert District.

trict:
Commencing at a post planted on o near the northeast corner of Section 35 Township 27, and marked J. P. L. N. E. corner, thence 80 chains south thence 80 chains west, thence 80 chain north, thence east to point of commencement, and intended to contain 64 acres. cres.
Dated at Alberni, B.C., June 18, 1903
J. P. LAWSON.
J. Renaldi, Agent.

Speed of Many Vessels IMPROVEMENT WORK

> Expert Speaks of Difficulties in the Way of Modern Constructive Engineering

J. B. Bebbeck, surveyor to the British Corporation in this city who has had considerable success with special types of propellers fitted to steamers in British Columbia and other waters, having improved the speed of at least a hundred steamers, the last being the C. P. R. steamer Princess May, the C. P. R. Steamer Princess May, says the matter of propeller improvement is still the great problem of the marine engineer. Mr. Rebbeck has given a great deal of attention to propellers and he was called upon by the C. P. R. to supply a new screw for the Princess May. When the restriction of the supplier of the princess of the supplier of the princess of the supplier of the su cent accident to the engines of the Skagway liner was followed by an overhaul Mr. Rebbeck's propeller was fitted and the engineers of the C. P. R. liner have been enthusiastic since regarding the manner in which it has improved the speed of the Princess

Mr. Rebbeck said: "While ama-Mr. Rebbeck said: "While amateurs and dreamers still entertain beliefs in power produced by mechanism, perpetual motion and so forth, the constructive engineer knows that he has but four sources of power, viz.: Animals, wind, water and fuel, and of the power delivered from any of these sources a greater or a lesser and of the power derivetor of a lesser of these sources a greater of a lesser fraction is realized in effective work dependent upon inevitable conditions and relative excellence of the mechan-ism employed in the transmission of

"In steam propulsion of ships a entury of struggle and steady devel-opment in the steam engine have pro-duced such results that the available duced such results that the available range of further improvement seems small. Yet all these improvements have not been in the production of power, but in the elimination of losses between the source of the power and its point of delivery and the constructive engineer's efforts continue to be concentrated upon the vital question of prevention of losses of all kinds. In the motive machinery a very high degree of perfection has or all kinds. In the motive machinery a very high degree of perfection has been attained, but the screw propeller itself wastes more power than is lost mechanically in the engine operat-

"In a roughly designed or unsuitable

ing it.

"In a roughly designed or unsuitable propeller the loss by inefficiency amounts to a large proportion of the engine power, which is thus wasted instead of being realized in the propulsion of the ship. The reduction of this waste is continually striven for, but while its complete elimination is impossible its irreducible minimum is seldom reached.

"An enormous amount of study and experiment has been expended, and experiment has been expended, and experience accumulated on the screw propeller during the past 70 years.

"Since Mr. William Petit Smith's first patent there have been thousands of other patents for various real and imaginary improvements of which there are very few evidences in general practice. Although patentees always claim great increases of efficiency, the survivals are principally

ways claim great increases of efficiency, the survivals are principally those which apply to special and exceptional conditions.

"An Italian engineer has lately advanced a claim of special efficiency for double propellers revolving in opposite directions on a common axis. These have been in use on all locomotive torpedoes ever since their invention by Mr. Whitehead, and many years ago a special patent was taken out for propellers of this type with the same claim for efficiency, and although they were tried on a sufficiently large scale they have never appeared in practice. Their adoption on torpedoes is a necessity arising from any question of efficiency.

"Experience has proven that the efficiency of the screw propeller is affected by course outside of itself, and

"Experience has proven that the efficiency of the screw propeller is affected by causes outside of itself, and frequently even separate from its motive power, and while its performance may be excellent in one vessel its action in another ship may be unsatisfactory. The causes for this peculiarity are often complex and obscure, and in a sense are analagous to what a doctor calls personal idiosyncrasy, which prohibits the use of a standard cure for an apparent aliment. "It is often found that a designer accustomed to deal with one class of vessel will design propellers that are unsuitable for another class, although he may be in possession of a mass of accumulated data on the subject, Practically all advances in steam propulsion may be traced to Great mitted. Britain, more than 50 types of steam engines have been used in British practice in the process of its marine evolution. Great Britain has built warships and merchant ships for every nation in the world that owns ships, and has been more or less copied or imitated by all nations who build ships, yet this propeller question has not been settled in finality as applied alike to all conditions, as may be illustrated by the fact that the introduction of the steam turbine to marine propulsion has necessitated a reconsideration of the propeller problem in tug steamers, which are known to be most efficient for the class of towing done in Europe are far from effective when applied to the kind of towing common in these waters.

"Therefore, the fact of obtaining any particular efficiency under one set of conditions is no guarantee for success under what may superficially ap-Britain, more than 50 types of steam

or conditions is no guarantee for suc-cess under what may superficially ap-pear as insignificant differences of condition, and the scope for the de-signer is still large."

Marksmen at Hamburg.

Marksmen at Hamburg.

Hamburg, July 10.—The American marksmen who arrived here yesterday spent the day in sightseeing and preparing for the competitions. The Swiss team won the extra international rifle match by two points from the French team. Germany won the pistol championship, beating Switzerland and France.