

The first depends on destroying
the magnetic field created by
the revolving armature itself what-
ever current be passing through it,
and the existence of which field
of variable strength ^{at an angle} with the more
powerful field of the field mag-
nets causes the resultant field
to follow the armature slightly
as the current increases and there-
fore requires the brushes to be shifted
not only on change of speed but
on change of current. We are also
hard at work on the effects of self
induction in dynamos - As I
told you the true cause for a

68, SLOANE STREET, S.W.

26/26 June 26th

Dear Fitzgerald.

What a good old fellow
you are to get me a lot of in-
formation I wish I could come to
Dublin to thank you in person but
I fear that is impossible - Please
send it ^{I send it through you} through you
you may be quite as good of what
is going on -

I should be delighted to
have the glass loan of your glass

photographs, especially if they
are suitable for projection, but
in any case I can have them
copied the right size if they are
wks. Will you send them to me.

I spent, as you know, Christmas
with my wife at Montpelier which
is a charming old place - a mixture
of modern Paris and ancient
clerical France - She is by no
means well, I guess to say, but
not worse than when she left En-
gland - Why did we not go a
sea voyage with you to Montreal
in the summer - vile berserks

-vices electricity to keep me in
Copley

26/26

We have been so busy (I mean
Pony and myself) that both Erg-
-meters and Vibration transmis-
-sion dynamometers, like many
other good things, have been ^{on} the
shelf. But we have got a plan
to make the position of the brushes
in a dynamo independent of
the strength of the current and
another to make the E.M.F. in-
dependent, within certain limits,
of the speed - But I speak you
don't ~~be~~ like being told secrets,
never mind you have only got me to tell;