

Johns Hopkins University,

Baltimore, Jan 28th 1883

My Dear Prof. Michelson,
I should be most
happy to make you a
grating but I am
afraid there are many
ahead of you. The
machine works slowly
(only 20,000 lines per day) and
the last diamond took
me two months to
set. But I would
rather have an American
do the work than
a foreigner. The
complete apparatus

to work with a concave
grating will be about
as follows.

Concave grating ^(A1) on 6 in.
circle having about 80,000 lines \$150.

Automatic apparatus
including slit, photographic
camera & eyepiece but
no micrometer about 200.

Fitting up room " 100.

You will need a large
room. Mine is 21 x 35 ft.

The next size is on
a 4 in. circle and has
about 45,000 lines. The
flat ones will show
more than anybody
has ever seen before
but need a pair

of telescopes of 3 in. diam.
of objective. These cost
about \$50. Anything
smaller than this we
do not trouble
ourselves with at
present.

Yours truly
Henry A. Rowland.