3 W 15th St.
N. York, 1886 Dec 30.

My dear Marquand:

I am as deeply touched by your generosity, as if you had made me a present; and doubtless you think it ~~highly~~ somewhat problematical when you see your money again. Nevertheless, I have no intention of remaining so poor as I am, and if there is no other way, if the world does not care to pay for my philosophy, I will abandon that and apply my logic to private ends. I mean at once to advertise that I will

P.S. If you will send me a copy of your last paper on your machines, I will act as Devil's Advocate, by attacking it.

give lessons by correspondence in the art of reasoning. If this idea is as successful as I hope I shall not keep you long waiting. If not, I have others.

I am very sorry I have misled you. I want to talk to you about my great Idea in philosophy. I would gladly go to Princeton to do so.

You spoke, when I saw you, as if disappointed with the reception your machine had met with. I wish I could see it. My impression is that it has two defects; First, I believe it only extends to four simple terms instead of to six

as it should; and second, if
he here does not reduce
the solution to its simplest
expression. It ought to perform
it operations, or 3 at least.
First it should develope any
expression as a into abcdef +
abcdef̄ + abcdē f + etc. Second
it should reduce expressions;
for instance
abcdef + abcdef̄ + abcdē f
into abcde + abcdf,
Third, it should multiply two de-
veloped polynomials, if not any
two. Fourth, though not absolute-
ly required, it would be well to
have it capable of adding. I
think you ought to return to

by no means hopeless to expect to make a machine for really very difficult mathematical problems. But you would have to proceed step by step. I think electricity would be the best thing to rely on.

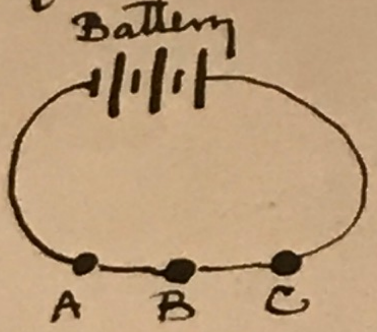


Fig 1.

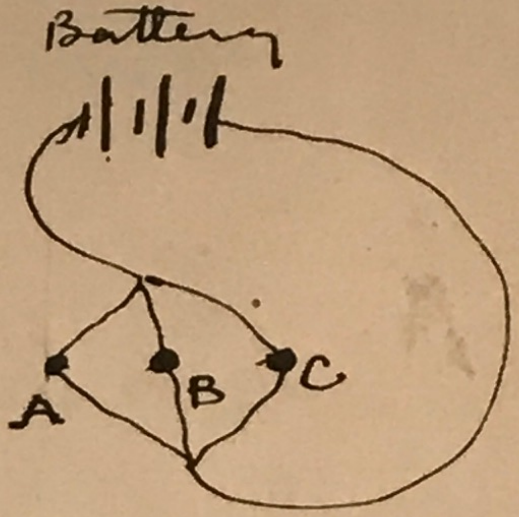
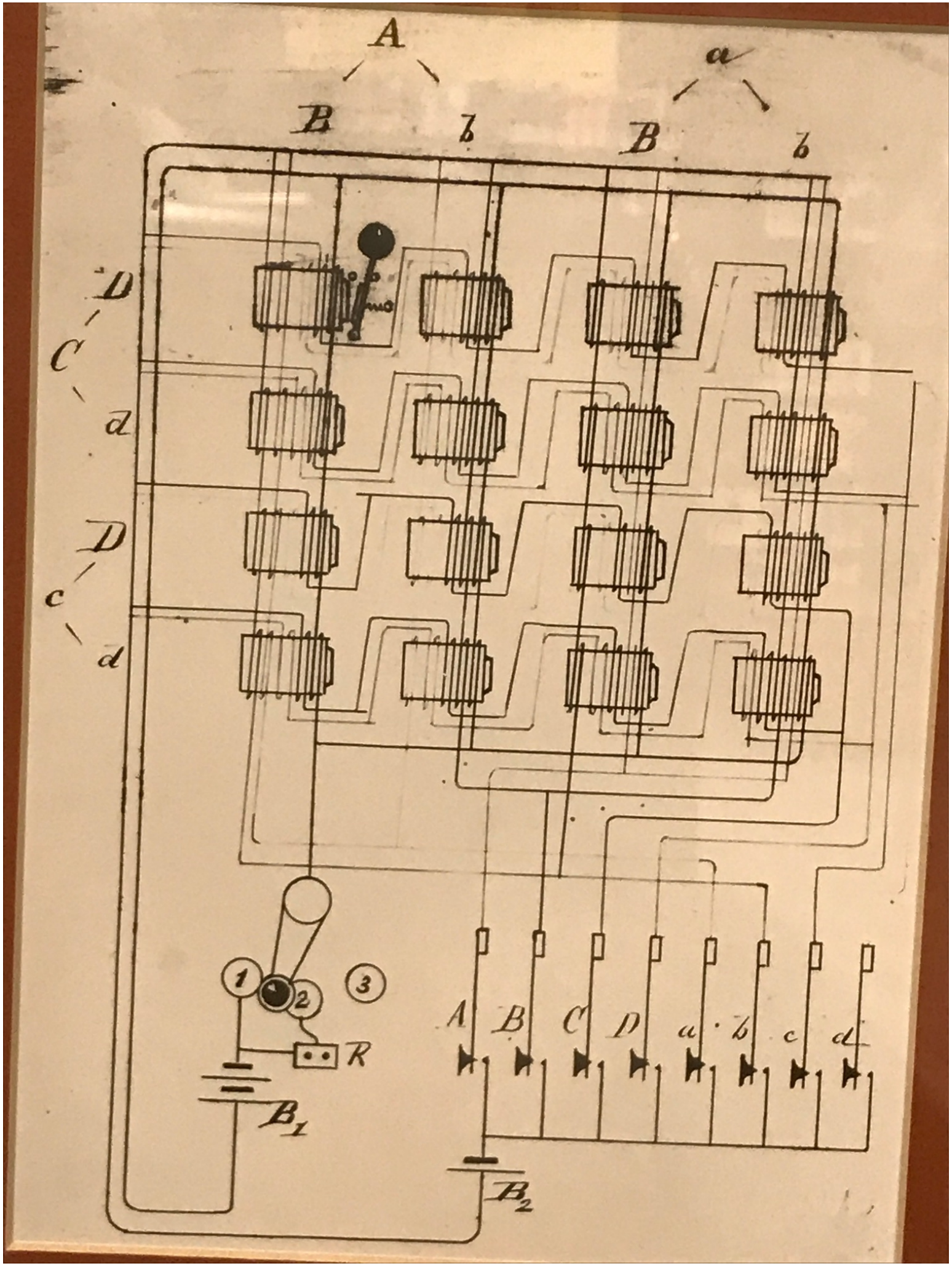


Fig 2.

Let A, B, C be three Keys or other points where the circuit may be open or closed. As in Fig 1, there is a circuit only if <u>all</u> are closed; in Fig. 2. there is a circuit if <u>any one</u> is closed. This is like multiplication & addition in Logic.

Yours faithfully C.S. Peirce


A
a
B
b
B
b
D
C
d
D
c
d
1
2
3
R
B1
A
B
C
D
a
b
c
d
B2