What I claim is:

1. A ciphering machine, comprising a plurality of ciphering means, ciphering channels on the said ciphering means, a key board, with a number of different keys equal to the product of the numbers of the ciphering channels of each cipheiing means, selector bars the number of which is equal to the sum of the ciphering channels of the ciphering means, each key acting respectively on one selector bar belonging to each ciphering means and a translating mechanism with selector members controlled by the said selector bars and the said ciphering means.

2. A ciphering machine, comprising a plurality of mechanical ciphering means, ciphering channels on the said ciphering means, a key board with a number of different keys equal to the product of the number of the ciphering channels of each ciphering means, selector bars the number of which is equal to the sum of the cipheiing channels of the ciphering means, each key acting respectively on one selector bar belonging to each ciphering means and a translating mechanism with selector members controlled by the said selector bars and the said ciphering means.

3. A ciphering machine, comprising a plurality of electrical ciphering means, ciphering channels on the said ciphering means. a key board with a number of different keys equal to the product of the numbers of the ciphering channels of each ciphering means, selector bars the number of which is equal to the sum of the ciphering channels of the ciphering means each key acting respectively on one selector

bar belonging to each ciphering means and a translating mechanism with selector members controlled by the said selector bar and the said ciphering means.

4. A ciphering machine, comprising a plurality of ciphering means, ciphering channels on the said ciphering means, a key board with a number of different keys equal to the product of the numbers of the ciphering channels of each ciphering means, selector bars the number of which is equal to the sum of the ciphering channels of the ciphering means each key acting respectively on one selector bar belonging to each ciphering means, and a translating mechanism with selector members the number of which is equal to the sum of the ciphering channels said selector members being controlled by the said selector bars and the said ciphering means.

5. A ciphering machine, comprising a plurality of ciphering means, ciphering channels on the said ciphering means, a key board with a number of different keys equal to the product of the numbers of the ciphering channels of each ciphering means, selector bars the number of which is equal to the sum of the ciphering channels of the ciphering means each key acting respectively on one selector bar belonging to each ciphering means and a translating mechanism with selector members the number of which is equal to the sum of the ciphering channels less a number at the most equal to the number of the ciphering means, said selector member being controlled by the said selector bars and the said ciphering means.

6. A ciphering machine, comprising a plurality of ciphering means, ciphering channels on the said ciphering means, a key board, with a number of different keys equal to the product of the number of the ciphering channels of each ciphering means, selector bars the number of which is equal to the sum of the ciphering channels of the ciphering means each key acting respectively on one selector bar belonging to each ciphering means a translating mechanism with selector members controlled by the said selector bars and the said ciphering means, and means for reversing the ciphering channels.

7. A ciphering machine, comprising a plurality of ciphering means, ciphering channels on the said ciphering means, a keyboard with a number of different keys equal to the product of the numbers of the ciphering channels of each ciphering means, selector bars the number of which is equal to the sum of the ciphering channels of the ciphering means, each key acting respectively on one selector bar belonging to each ciphering means, a translating mechanism with selector members contr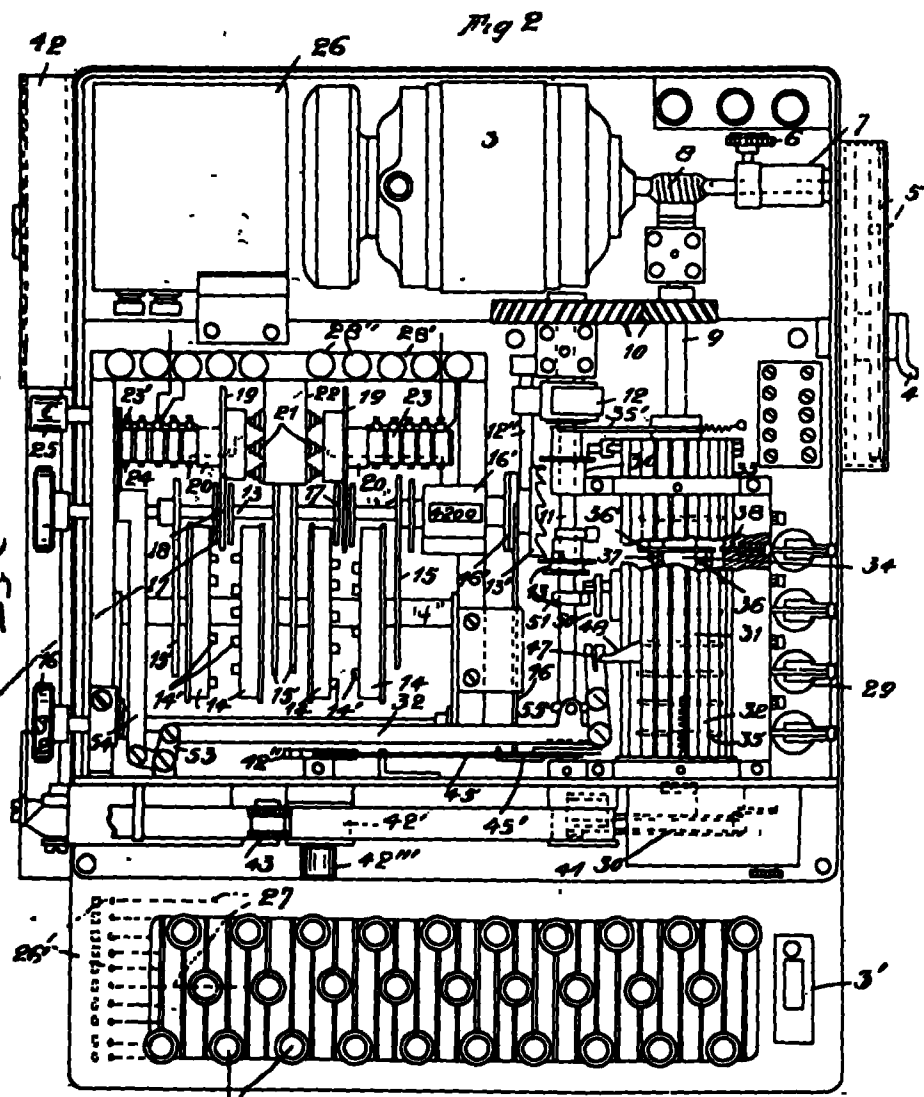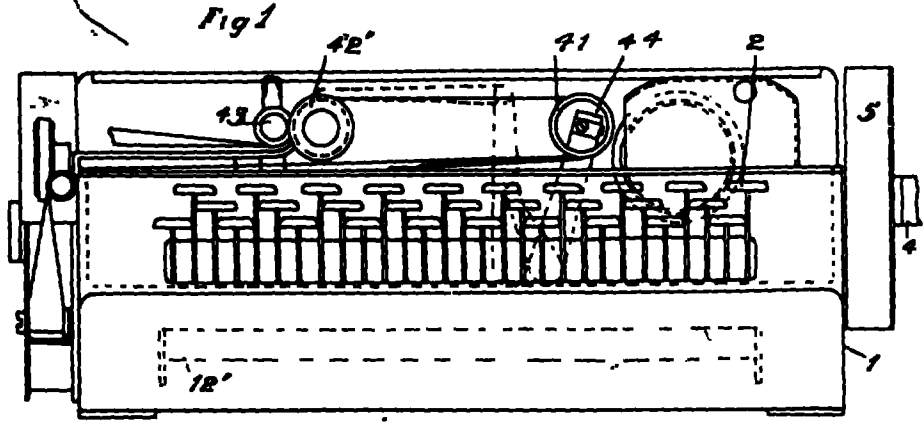olled by the said selector bars and the said ciphering means, and means for reversing the ciphering channels and for by-passing the same.

8. A ciphering machine, comprising a plurality of ciphering means, ciphering channels on the said ciphering means, a key board with a number of different keys equal to the product of the numbers of the ciphering channels of each ciphering means, selector bars the number of which is equal to the sum of the ciphering channels of the ciphering means, each key acting respectively on one selector

bar belonging to each ciphering means, a translating mechanism

with electro-mechanical selector members controlled by the

said selector bars and the said ciphering means, and means for re-

versing the ciphering channels and for by-passing the same.

9. A ciphering machine, comprising a plurality of ciphering

means, ciphering channels on the said ciphering means, a key

board with a number of different keys equal to the product of the

ciphering channels of each ciphering means, each of said keys marked

with a letter and a figure excepting four marked with a letter only

and operatively related with two for the spacing and two for the

shifting from letter to figure and vice-versa, selector bars the

number of which is equal to the sum of the ciphering channels of

the ciphering means, each key acting respectively on one selector

bar belonging to each ciphering means, and a translating mechanism

with selector-members controlled by the said selector bars and the

said ciphering means.

Insert
C¹

/C¹

$\frac{197}{4}$ ⑤

Fig 1

Fig 2

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Fig.3

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Fig 4

28
23
24
25'''
28'
23'
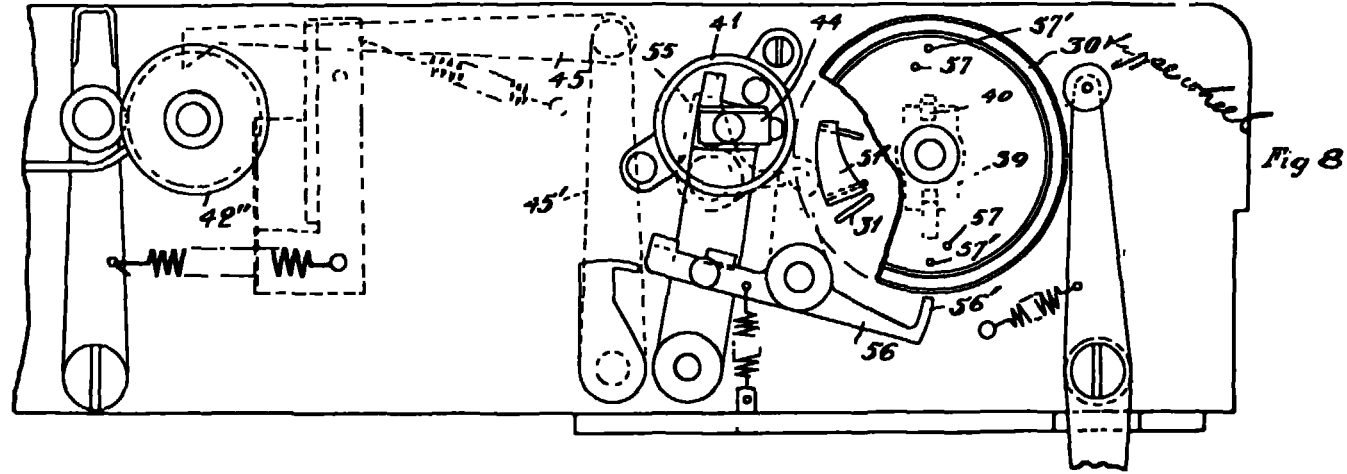25"

Fig 5

28
23
28'
24
25"
28'
25·26
25'

Fig 6

28
23
24
25"
28'
23'
25'

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Fig. 10

27   38   59   29

26

Fig. 11

Fig. 12

2

59

27

59

38

35

29

59

26

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Fig 8
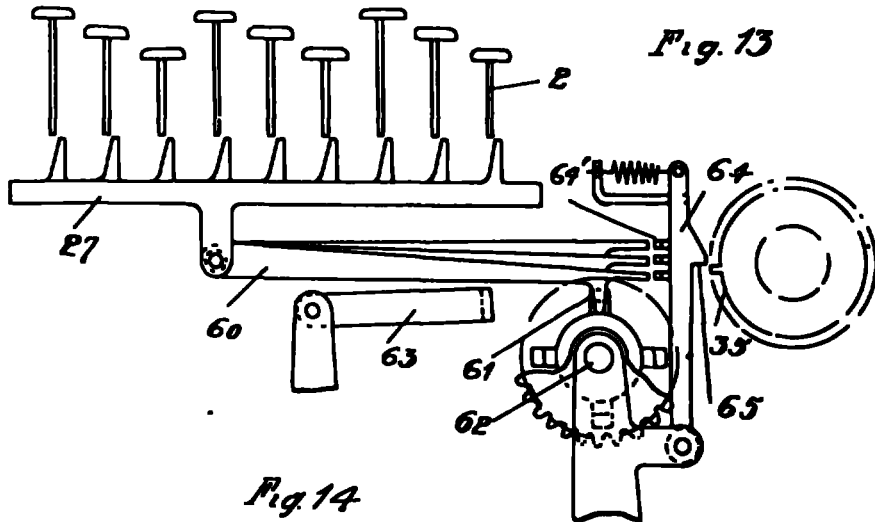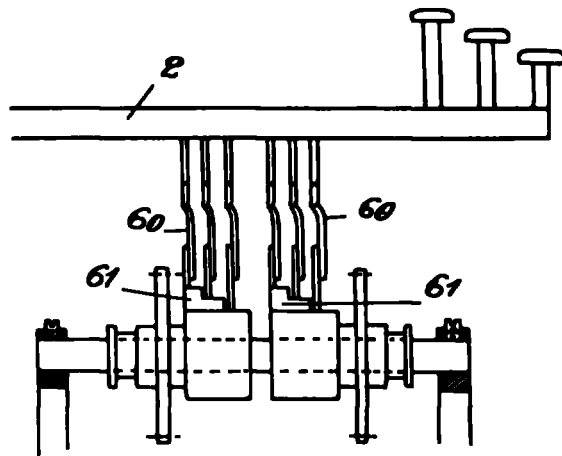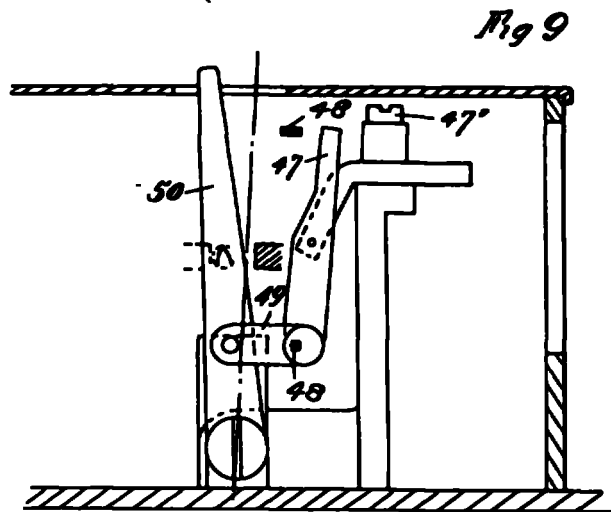
Fig 7
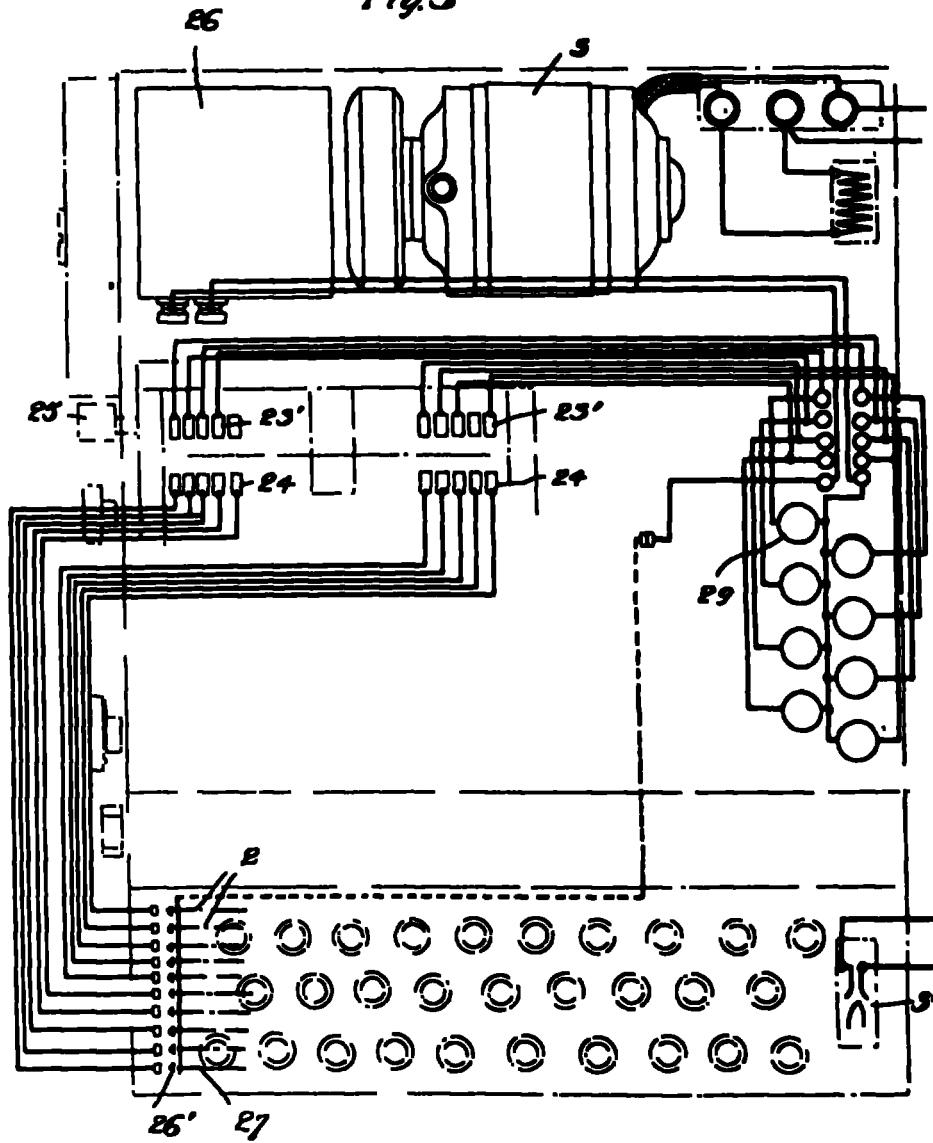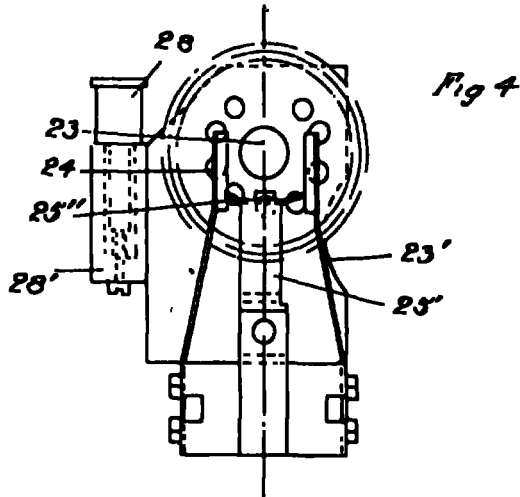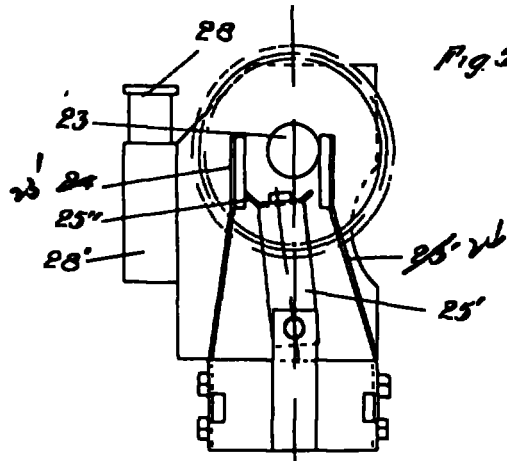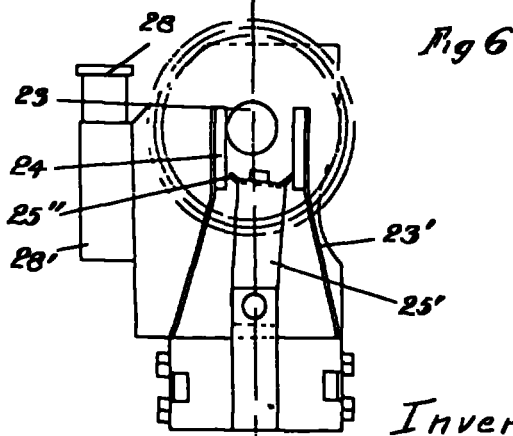
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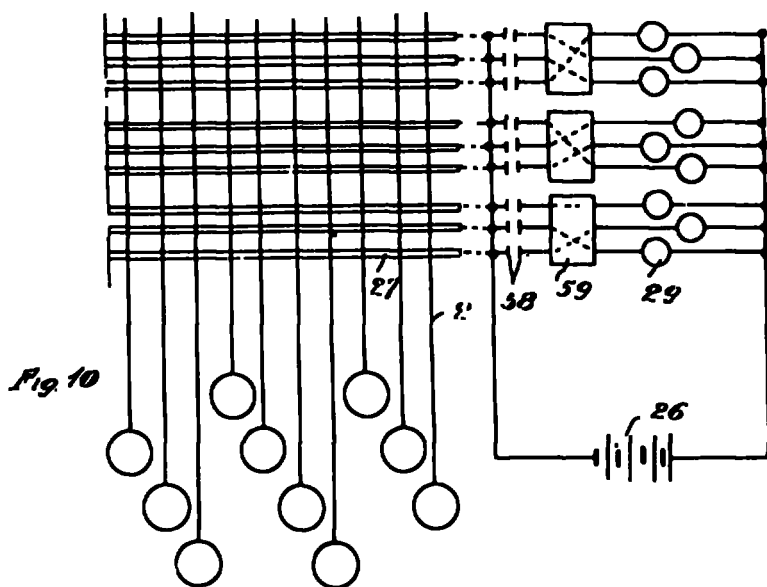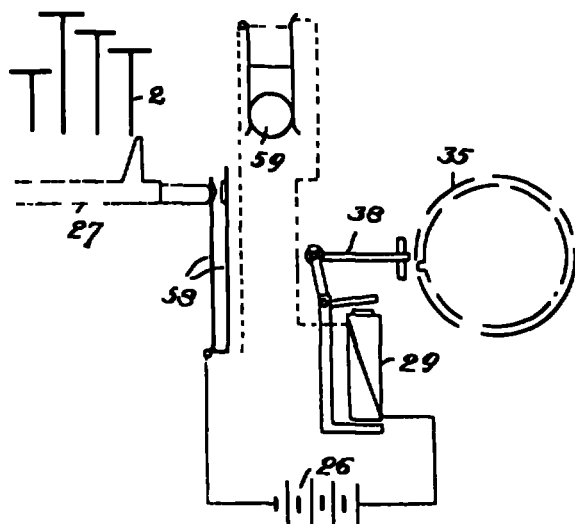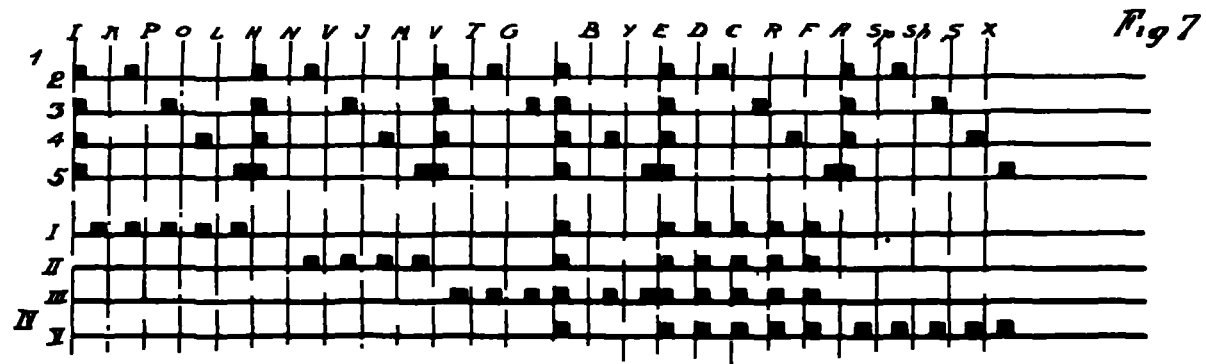
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Fig. 13

Fig. 14

Fig 9

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