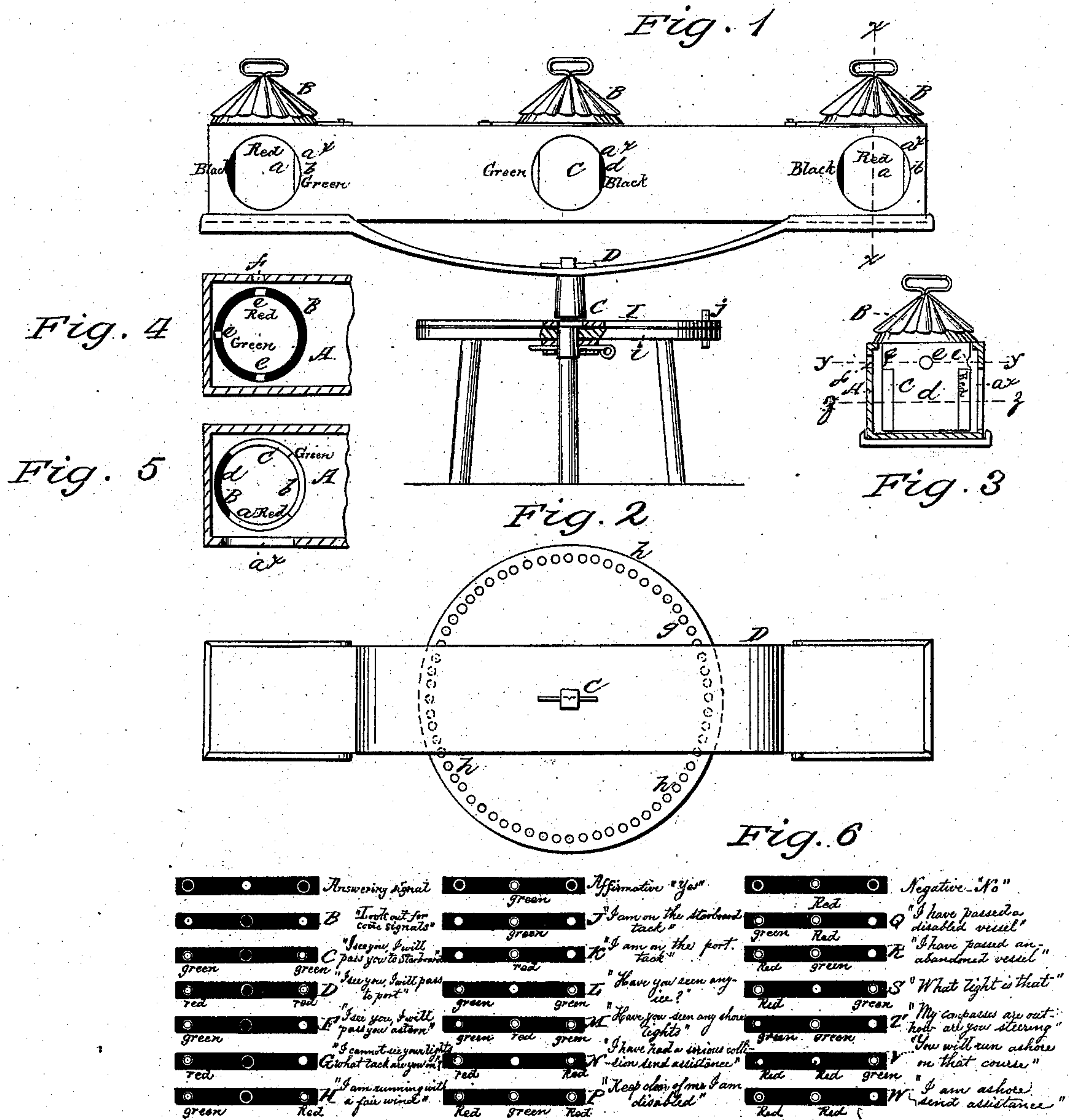


# J. WALL. Signal Lamp.

No. 66,191.

Patented June 25, 1867.



Answering signal	Affirmative "Yes"	Negative "No"
Green	Green	Red
B "Look out for close signals"	J "I am on the starboard tack"	Q "I have passed a disabled vessel"
Green	Green	Green Red
C "See you, I will pass you to starboard"	K "I am on the port tack"	R "I have passed an abandoned vessel"
Green	Red	Red Green
D "See you, I will pass to port"	L "Have you seen any ice?"	S "What light is that?"
Red	Green	Red Green
E "See you, I will pass you astern"	M "Have you seen any lights?"	T "My compasses are out - hold all you steering"
Green	Green Red Green	Green Green
F "I cannot see your light"	N "I have had a serious colli- sion and assistance"	V "You will run ashore on that course"
Green Red	Red	Red Red Green
G "What tack are you on?"	O "Keep clear of me I am disabled"	W "I am ashore send assistance"
Red	Red Green Red	Red Red
H "I am running with a fair wind"		

Witnesses:

J. A. Seivice  
Wm. F. Frewin

Inventor:

Joseph Wall  
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Atty



# United States Patent Office.

JOSEPH WALL, OF NEW YORK, N. Y.

*Letters Patent No. 66,191, dated June 25, 1867.*

## IMPROVEMENT IN SIGNAL LAMPS.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOSEPH WALL, of the city, county, and State of New York, have invented a new and improved Anti-Collision and Code Signal Lamp; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front view of my invention.

Figure 2, a plan or top view of the support for the lamp.

Figure 3, a detached view of one of the lamps pertaining to the same.

Figures 4 and 5, horizontal sections of fig. 3, taken respectively in the lines *y y*, *z z*.

Figure 6, a view of the colors shown in giving different signals.

Similar letters of reference indicate like parts.

This invention relates to a new and improved anti-collision and code signal lamp, adapted for vessels at sea, to prevent collisions and afford a complete method of communicating information of any description between vessels at night.

My improved lamp I construct of a box, A, of block tin or sheet iron, about three feet four inches long, seven inches wide, and six inches deep. It is constructed with three openings *a* *a* *a* in front, having convex lenses fitted in them to throw the rays of light to a great distance. Within this box thus formed or constructed, I place three tubular cases B, which are fitted in circular apertures in the top of the box, and have three glass sections, red designated by *a*, green designated by *b*, and white designated by *c*, and a dark or opaque section, *d*, (see fig. 5.) Within each of these cases a light is placed, and it will be seen, by turning these cases, a white, red, or green light, as desired, may be projected through the lenses in box A. The cases B may be retained in position or prevented from turning casually by means of springs fitting or catching in notches in the upper parts of the cases at the top of box A. These cases B are turned by hand at the rear of box A, and in order that the operator may know how to adjust or turn these cases in order to throw the proper colored light out from the front of the box A, pieces of colored glass *e* are inserted in the upper parts of the cases B, at opposite sides to the corresponding colors, through which the rays of light are projected from the cases, holes *f* being made in the rear of the box so that *e* may be seen.

From the above description it will be seen that a white, red, or green light may be projected through either of the lenses of the box A, and eighteen different signals or signs may be shown by various combinations of the different lights corresponding to the different flags used as day signals in the "commercial code of signals for all nations." The only difference between the day flag signals and my improvement is that one flag represents one letter only, whereas in my invention each signal or sign represents a letter and an important sentence attached, as shown in fig. 6. The box A is placed upon a revolving stand or support C, so arranged that the device may be turned to face any point of the compass and secured at any desired point. The upper part D of this stand, which revolves, has a disk, *g*, at its lower end, perforated all around near its edge with holes *h*, and this disk works over a corresponding perforated disk, *i*, on the stationary part E of the stand, a pin, *j*, passing through the holes in the disks to secure the revolving part D in position.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

The box A, having cases B fitted in it, provided with different-colored glasses *a b c*, and an opaque or dark section *d*, and enclosing lamps or lights, the cases being placed before openings in the box, and all arranged substantially as and for the purpose specified.

I further claim the placing of the box A on a revolving stand, constructed and arranged substantially as and for the purpose set forth.

The above specification of my invention signed by me this 25th day of October, 1866.

JOSEPH WALL.

Witnesses:

WM. F. McNAMARA,

ALEX. F. ROBERTS.