

# PORTABLE HOLOGRAPHIC SCREEN WITH PROJECTION SYSTEM ATTACHED

PhD.Student Fabian Arun PANAITE  
PhD.Habil.Professor Monica LEBA  
**A00347/03.07.2023**

## ABSTRACT

The invention refers to the achievement of a projection screen that has the function of portability, with the help of a closing system, handles and wheels, with which it can be moved to the places where the displayed images can be seen. Thus, the elements displayed within it will be seen, in forms that include depth and not only length and width. The transfer of the image from the projector to the screen is done by using a white surface of the visual buffer type, from which the projected waves are reflected in the display surface, where the visible element called depth is added to them.

## KEYWORDS

Collaborative systems,  
Collective learning,  
Swarm robots

## CONTACT

**Monica Leba**  
Universitatea din Petroșani  
monicaleba@yahoo.com  
0736-980.865  
www.upet.ro

## INTRODUCTION

### FIELD OF APPLICATION OF THE INVENTION

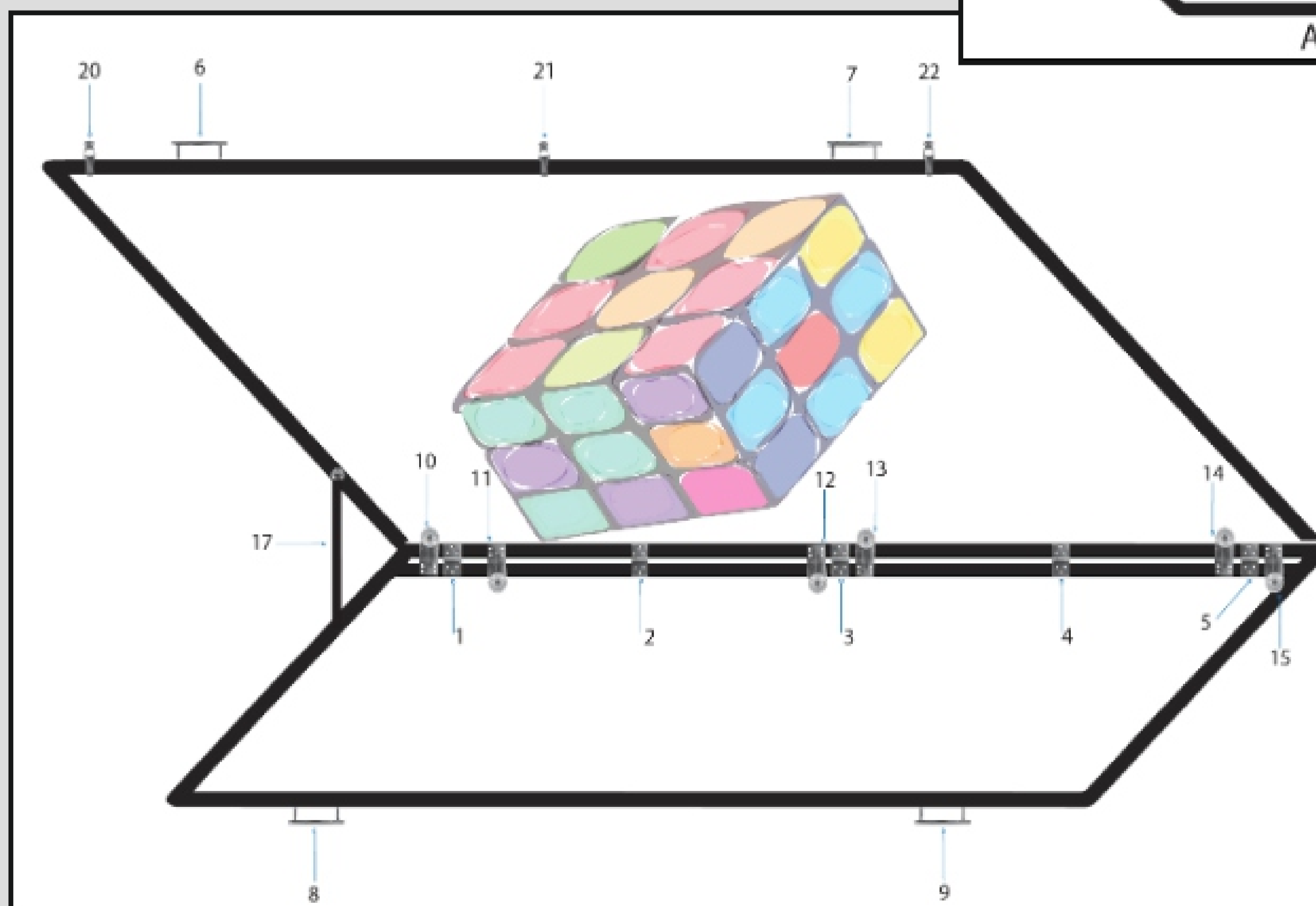
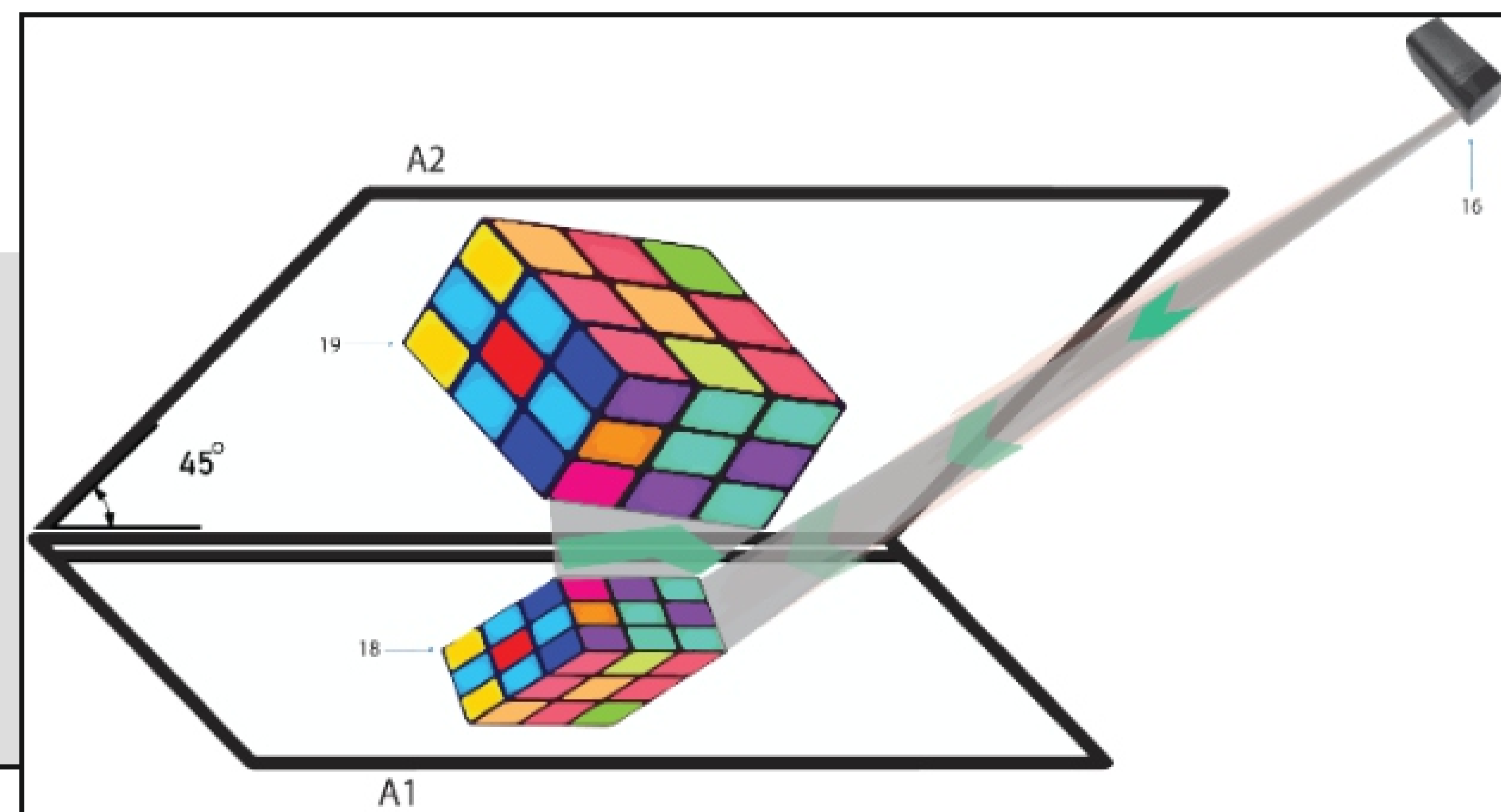
The invention aims to create a portable screen with an attached projection system that allows the playback of three-dimensional images to represent the three-dimensional shapes of objects captured in photographs, videos, or three-dimensionally rendered objects, synthesized by a computing system. Potential areas of application include the entertainment industry, shows, and teleconferencing systems.

## RESULTS

(FIG 1) white screen (A1) transparent screen (A2) showing the hologram.  
Both screens (FIG 2) screwed through (1, 2, 3, 4, 5) hinges. Handles (6, 7, 8, 9) screwed to the edges.  
Wheels (10, 11, 12, 13, 14, 15) screwed next to hinges.  
Projector (16), 45 degree angle (17) projected images (18,19) locks (20, 21, 22).

### ADVANTAGES:

- Technical simplicity
- Low costs
- High quality image
- Portability



### TECHNICAL PROBLEM SOLVED BY THE INVENTION

The present invention seeks to create a display device capable of expressing the depth of an image containing an object or an environment. It should be noted that the display device is portable and includes the projection system.

### CLAIMS

A projection screen composed of a white visual pad-like surface and a spatially arranged transparent display surface at a 45-degree angle and a video projector. The holographic image is created by reflecting the image projected onto the white surface onto the transparent surface.

The projection screen as claimed in claim 1, which also features portability through a closing system, handle-like elements, and wheel-like elements that enable it to be moved to the desired location for use.