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(54) **MOVABLE PUZZLE PLATFORM**

(57) A movable puzzle platform for placing a plurality of puzzle pieces thereon, includes: a puzzle board comprising a top surface for placing the puzzle piece thereon; and a board accessible unit coupled with the puzzle board and comprising a first moving member, a second moving member, and a first bearing unit coupled between the first moving member and the second moving member. The first moving member is rotatably mounted to the second moving member by the first bearing unit. At least a part of an outer circumferential surface of the first moving member is directly opposite to and facing at least a part of an inner circumferential surface of the second moving member via the first bearing unit to enable the second moving member to be coaxially rotated with respect to the first moving member.

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EUROPEAN SEARCH REPORT

Application Number
EP 24 18 4581

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X A	US 2023/097737 A1 (CHE XIAOLING [CN]) 30 March 2023 (2023-03-30) * paragraphs [0042] - [0046]; figures *	1-15 16-38	INV. A63F9/10 ADD. A63F3/00
X A	CN 113 967 354 A (CHE XIAOLING) 25 January 2022 (2022-01-25) * Figures 1 and 2 and corresponding passages in the description; the whole document *	1-15 16-38	
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A	CN 114 470 731 A (CHE XIAOLING) 13 May 2022 (2022-05-13) * the whole document *	23-38	

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The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
Munich	21 March 2025	Bagarry, Damien

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
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D : document cited in the application
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& : member of the same patent family, corresponding document

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EP 24 18 4581

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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A	CN 216 877 805 U (CHE XIAOLING) 5 July 2022 (2022-07-05) * the whole document *	23-38	

TECHNICAL FIELDS SEARCHED (IPC)

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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).

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LACK OF UNITY OF INVENTION
SHEET B

Application Number
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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-15

A movable puzzle platform comprising a puzzle board and a board accessible unit comprising a first moving member rotatably mounted to a second moving member via ball bearings and comprising an air gap formed by the outer circumferential surface of the first moving member and the inner circumferential surface of the second moving member, the air gap being without an object along a thickness direction of the board accessible unit,
thereby supplying sufficient rotating space for the first moving member with respect to the second moving member,
solving the problem of providing a rotating assembly for a puzzle platform that can turn more reliably without getting stuck.

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2. claims: 16-22

A rotating assembly comprising a first moving member and a second moving member rotatably coupled to the first moving member for forming a holding space receiving ball bearings, wherein the first moving member comprises a first middle portion, an inclining portion and a projecting portion, the first middle portion being farther away from the ball bearings than an upper surface of the projecting portion in a thickness direction of the rotating assembly,
thereby maintaining a distance between a puzzle board possibly attached to the first middle portion and the rest of the rotating assembly, thereby enabling a smooth rotation of the puzzle board.

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3. claims: 23-38

A movable puzzle platform comprising a board assembly comprising a puzzle board, a rotating assembly comprising a first moving member, a second moving member and ball bearings for allowing the second moving member to rotate with respect to the first moving member, and a kickstand on which the rotating assembly is attached, wherein one end of the kickstand is configured for being pivotally coupled at the board assembly while a free end of the kickstand is adapted to pivotally fold from the board assembly, an outer diameter of the rotating assembly being smaller than a length of the kickstand,
thereby avoiding the rotating assembly colliding with a puzzle board when the kickstand is opened.

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 24 18 4581

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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21-03-2025

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