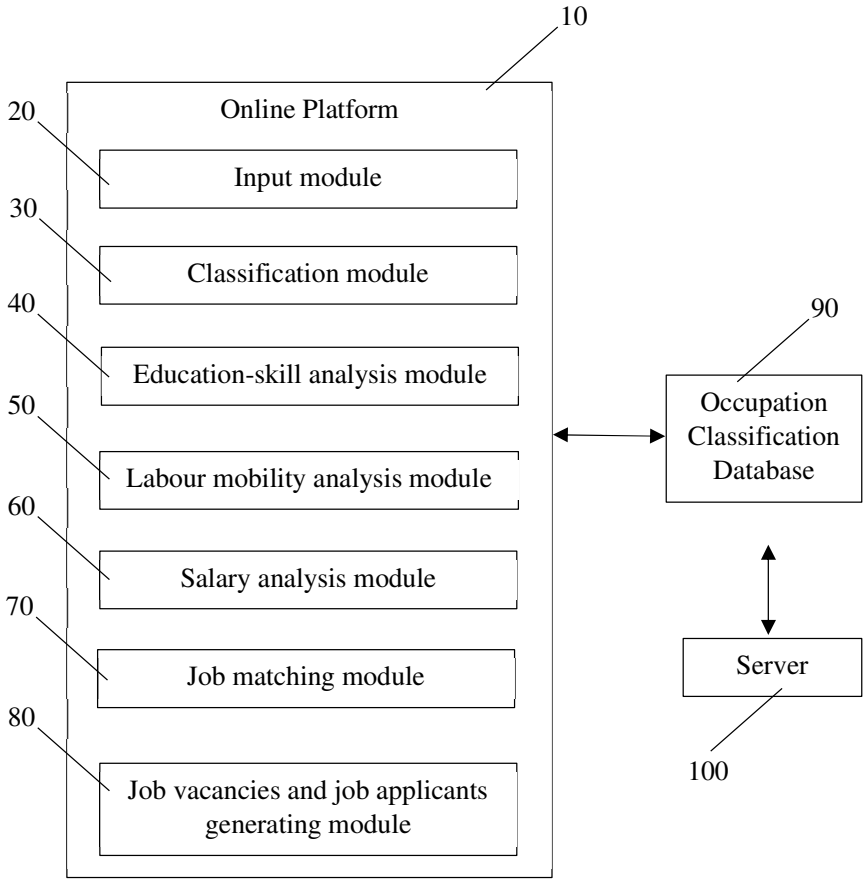

10
Online Platform
20
Input module
30
Classification module
40
Education-skill analysis module
50
Labour mobility analysis module
60
Salary analysis module
70
Job matching module
80
Job vacancies and job applicants generating module
90
Occupation Classification Database
Server
100

FIG. 1

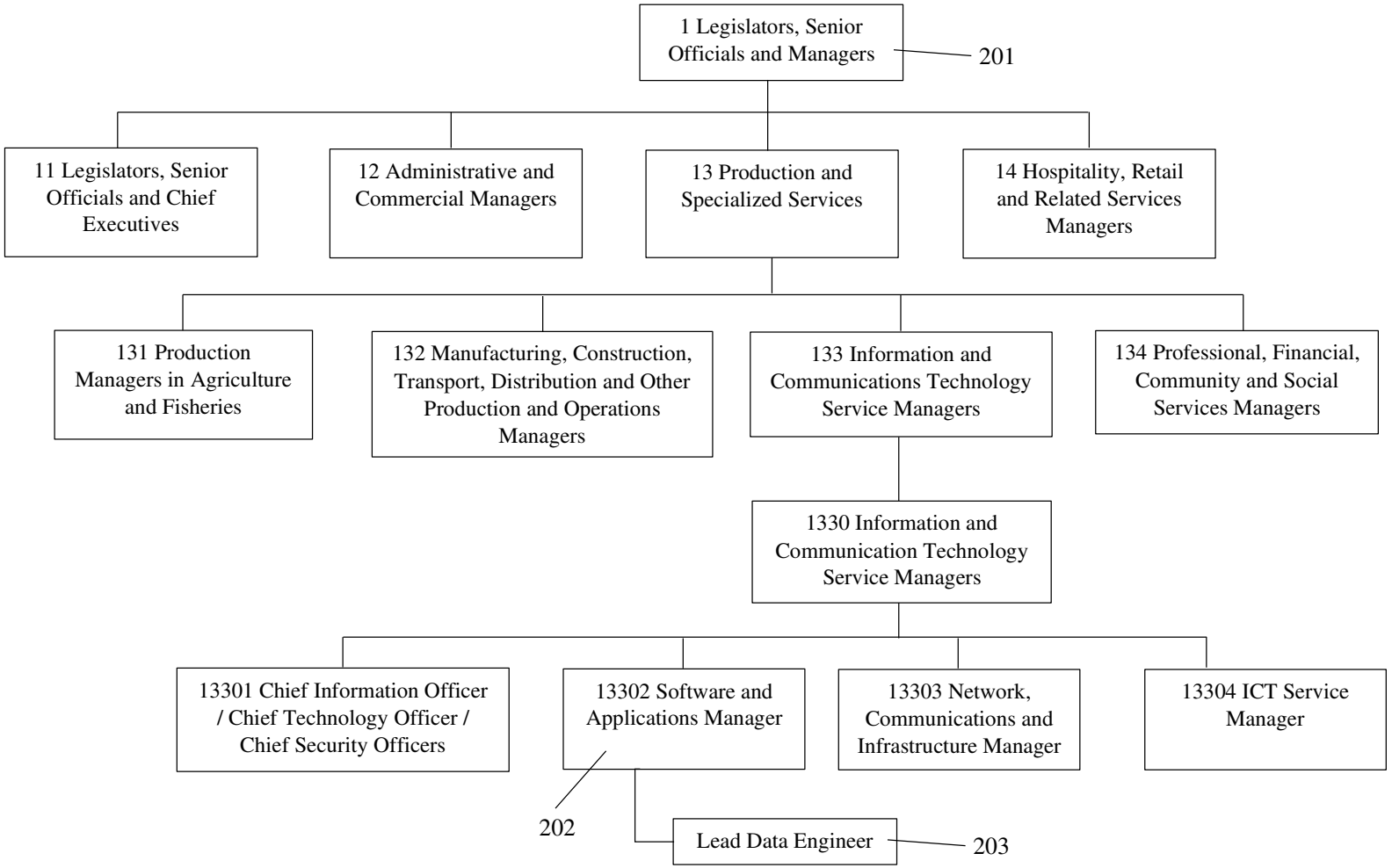

1 Legislators, Senior Officials and Managers
201
11 Legislators, Senior Officials and Chief Executives
12 Administrative and Commercial Managers
13 Production and Specialized Services
14 Hospitality, Retail and Related Services Managers
131 Production Managers in Agriculture and Fisheries
132 Manufacturing, Construction, Transport, Distribution and Other Production and Operations Managers
133 Information and Communications Technology Service Managers
134 Professional, Financial, Community and Social Services Managers
1330 Information and Communication Technology Service Managers
13301 Chief Information Officer / Chief Technology Officer / Chief Security Officers
13302 Software and Applications Manager
13303 Network, Communications and Infrastructure Manager
13304 ICT Service Manager
202
Lead Data Engineer
203

FIG. 2

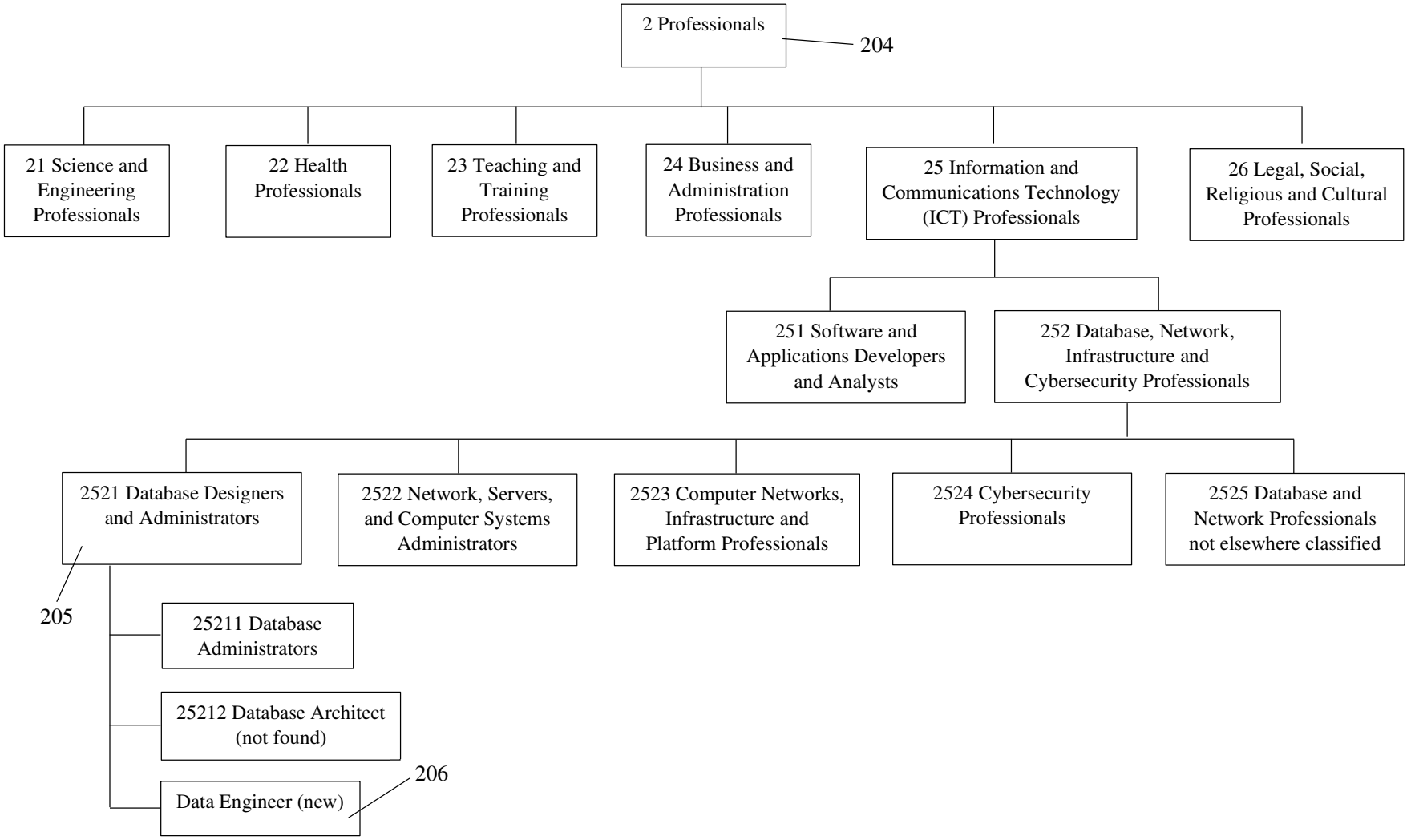

2 Professionals
204
21 Science and Engineering Professionals
22 Health Professionals
23 Teaching and Training Professionals
24 Business and Administration Professionals
25 Information and Communications Technology (ICT) Professionals
26 Legal, Social, Religious and Cultural Professionals
251 Software and Applications Developers and Analysts
252 Database, Network, Infrastructure and Cybersecurity Professionals
2521 Database Designers and Administrators
2522 Network, Servers, and Computer Systems Administrators
2523 Computer Networks, Infrastructure and Platform Professionals
2524 Cybersecurity Professionals
2525 Database and Network Professionals not elsewhere classified
205
25211 Database Administrators
25212 Database Architect (not found)
206
Data Engineer (new)

FIG. 3

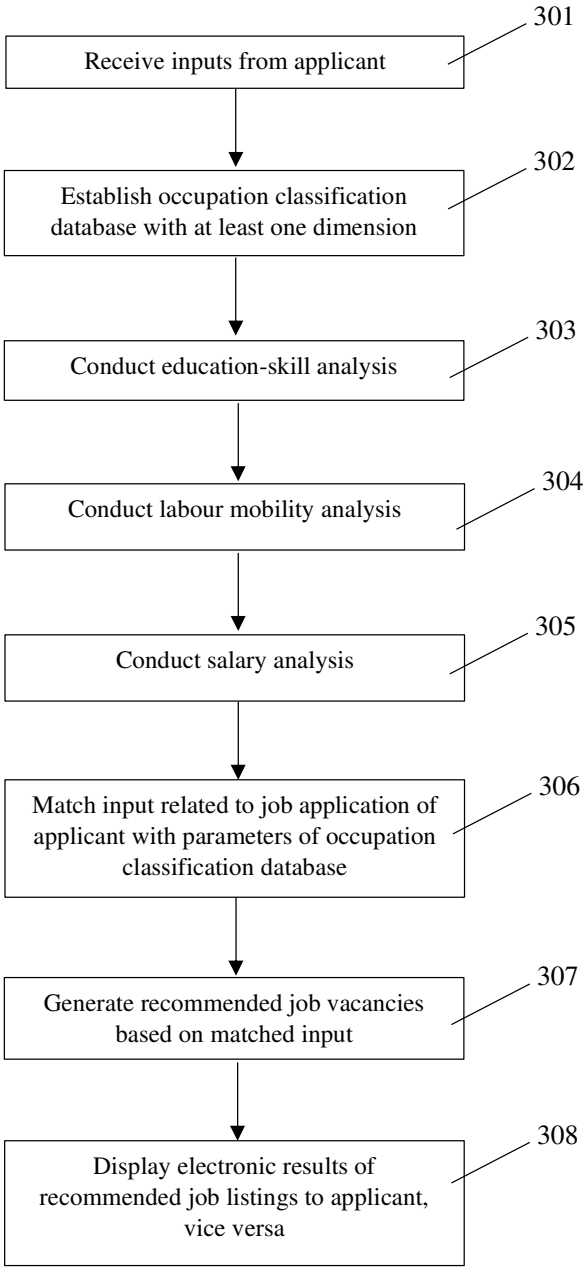

301
Receive inputs from applicant
302
Establish occupation classification database with at least one dimension
303
Conduct education-skill analysis
304
Conduct labour mobility analysis
305
Conduct salary analysis
306
Match input related to job application of applicant with parameters of occupation classification database
307
Generate recommended job vacancies based on matched input
308
Display electronic results of recommended job listings to applicant, vice versa

FIG. 4

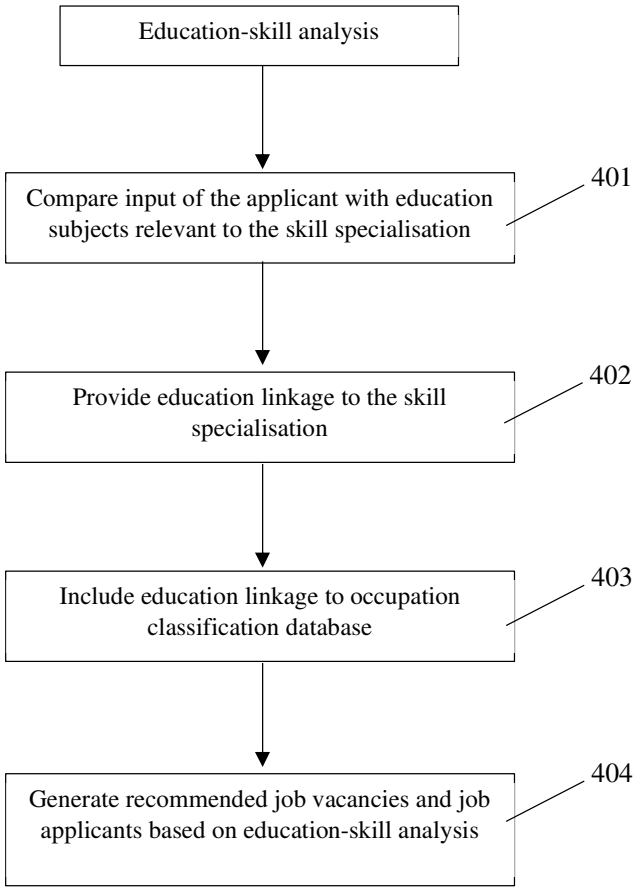

Education-skill analysis
Compare input of the applicant with education subjects relevant to the skill specialisation
401
Provide education linkage to the skill specialisation
402
Include education linkage to occupation classification database
403
Generate recommended job vacancies and job applicants based on education-skill analysis
404

FIG. 5

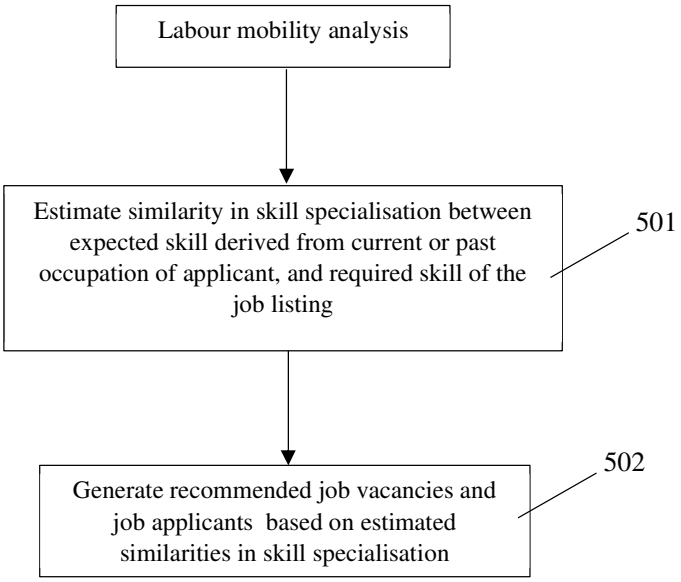

Labour mobility analysis
Estimate similarity in skill specialisation between expected skill derived from current or past occupation of applicant, and required skill of the job listing
501
Generate recommended job vacancies and job applicants based on estimated similarities in skill specialisation
502

FIG. 6

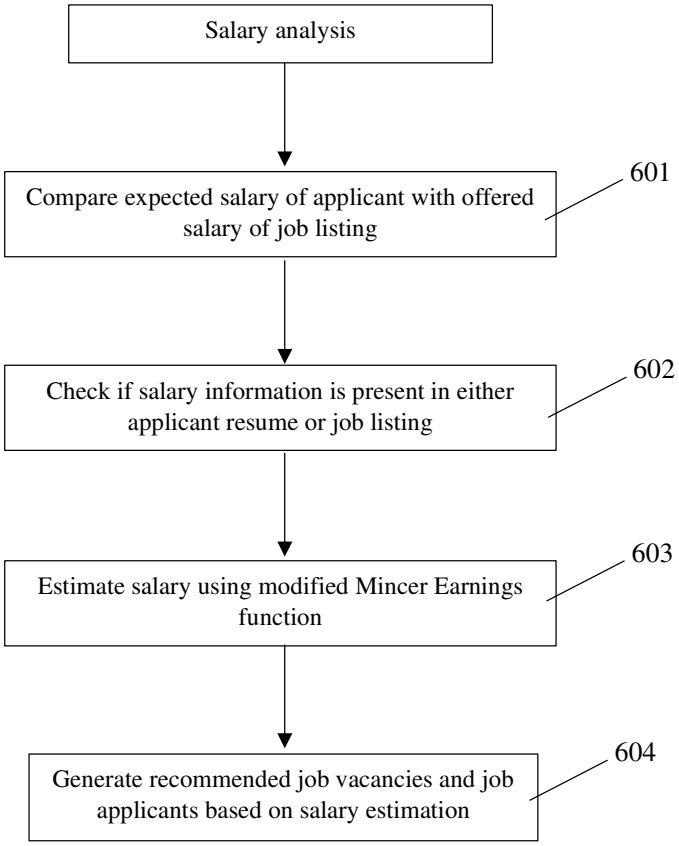

Salary analysis
Compare expected salary of applicant with offered salary of job listing
601
Check if salary information is present in either applicant resume or job listing
602
Estimate salary using modified Mincer Earnings function
603
Generate recommended job vacancies and job applicants based on salary estimation
604

FIG. 7