

# 4° / MIA — Patent list

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20260916年四度米阿专利管理台账 (潘文洁 2026-09-17 修订版)

**75 patent applications filed (4° 40 · MIA 35) — 60 granted, 56 in force, 13 under examination**

## Patents in force (56)

| #  | Company | Product / project        | Patent title                                                             | Type          | Application no. | Publication no. | Filed      | Granted    | Valid to   |
|----|---------|--------------------------|--------------------------------------------------------------------------|---------------|-----------------|-----------------|------------|------------|------------|
| 1  | 4°      | Soda maker range         | Soda maker<br>苏打水机                                                       | Design        | 201730500006X   | CN304594867S    | 2017-10-19 | 2018-04-20 | 2027-10-19 |
| 2  | 4°      | SHANG                    | Gas supply device for a sparkling water machine<br>气泡水机的供气装置             | Utility model | 2018205564729   | CN208768868U    | 2018-04-17 | 2019-03-29 | 2028-04-17 |
| 3  | 4°      | SHANG                    | Pressure-release device and sparkling water machine<br>泄压装置及气泡水机         | Utility model | 2019213821527   | CN210871078U    | 2019-07-26 | 2020-05-18 | 2029-07-26 |
| 4  | 4°      | SCARLETT                 | Pressure-release device and sparkling water machine<br>泄压装置及气泡水机         | Utility model | 2019213813658   | CN210687132U    | 2019-08-23 | 2020-03-17 | 2029-08-23 |
| 5  | 4°      | XIA                      | Soda maker<br>苏打水机                                                       | Design        | 2020302384093   | CN306068211S    | 2020-05-21 | 2020-09-22 | 2030-05-21 |
| 6  | 4°      | MINISHANG                | Drinking-water device and water bottle<br>饮水装置及水瓶                        | Utility model | 2020209640593   | CN212755233U    | 2020-05-29 | 2021-03-23 | 2030-05-29 |
| 7  | 4°      | XIA                      | A soda maker and a management system for soda makers<br>一种苏打水机和苏打水机的管理系统 | Utility model | 2020212655240   | CN212460665U    | 2020-07-02 | 2021-02-02 | 2030-07-02 |
| 8  | 4°      | Downward injection       | Soda maker<br>苏打水机                                                       | Design        | 202130233012X   | CN306764745S    | 2021-04-22 | 2021-07-14 | 2031-04-22 |
| 9  | 4°      | Soda juicer              | Soda juicer<br>苏打果汁机                                                     | Utility model | 2021213598076   | CN215937070U    | 2021-06-19 | 2022-03-04 | 2031-06-19 |
| 10 | 4°      | Bottom-intake soda maker | A soda maker<br>一种苏打水机                                                   | Utility model | 2021224113346   | CN216494850U    | 2021-10-08 | 2022-02-24 | 2031-10-08 |
| 11 | 4°      | Portable soda maker      | Portable soda maker<br>便携式苏打水机                                           | Design        | 2021307101610   | CN307154980S    | 2021-10-29 | 2022-03-08 | 2036-10-29 |
| 12 | 4°      | SONG                     | Soda maker<br>苏打水机                                                       | Design        | 2022300601672   | CN307341980S    | 2022-01-28 | 2022-03-30 | 2037-01-28 |
| 13 | 4°      | Soda maker               | Soda maker<br>苏打水机                                                       | Design        | 2022301347768   | CN307427042S    | 2022-03-16 | 2022-06-28 | 2037-03-16 |
| 14 | 4°      | Portable soda maker      | Sparkling water machine<br>气泡水机                                          | Utility model | 2022213593240   | CN218186341U    | 2022-05-31 | 2023-01-03 | 2032-05-31 |
| 15 | 4°      | Vacuum cup               | Insulated pressure-holding cup<br>保温保压杯                                  | Utility model | 2022213799972   | CN218186476U    | 2022-06-01 | 2023-01-03 | 2032-06-01 |
| 16 | 4°      | ROBERT soda maker        | Soda maker<br>苏打水机                                                       | Design        | 202230791696X   | CN307916182S    | 2022-10-01 | 2023-03-14 | 2037-10-01 |
| 17 | 4°      | Tumbler cup              | Tumbler cup<br>吨吨杯                                                       | Design        | 2023304821360   | CN308367791S    | 2023-07-31 | 2023-12-12 | 2038-07-31 |
| 18 | 4°      | Tumbler mixer head       | Juice cup (tumbler barrel)<br>果汁杯 (吨吨桶)                                  | Design        | 2023304823898   | CN308671656S    | 2023-07-31 | 2024-06-04 | 2038-07-31 |

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|----|---------|----------------------------------------|----------------------------------------------------------------------|---------------|-----------------|-----------------|------------|------------|------------|
| 19 | 4°      | Soda maker                             | Soda maker<br>苏打水机                                                   | Design        | 2023305845108   | CN308588797S    | 2023-09-08 | 2024-04-16 | 2038-09-08 |
| 20 | 4°      | Soda maker pump assembly               | Carbonation device and soda maker<br>打气装置及苏打水机                       | Utility model | 2023227814633   | CN221012900U    | 2023-10-17 | 2024-05-28 | 2033-10-17 |
| 21 | 4°      | Bottle swing mechanism                 | Swing structure for the water bottle of a soda maker<br>苏打水机的储水瓶摆动结构 | Utility model | 2023227812939   | CN221012899U    | 2023-10-17 | 2024-05-28 | 2033-10-17 |
| 22 | 4°      | Auto-aligning sparkling machine        | Sparkling water machine<br>气泡水机                                      | Utility model | 2023235322236   | CN221769780U    | 2023-12-22 | 2024-09-27 | 2033-12-22 |
| 23 | 4°      | SING                                   | Soda maker (SING)<br>苏打水机 (SING)                                     | Design        | 2023308660211   | CN309030806S    | 2023-12-29 | 2024-11-22 | 2038-12-29 |
| 24 | 4°      | SHANG X                                | Soda maker (SHANG X)<br>苏打水机(SHANGX)                                 | Design        | 202430021306X   | CN308882026S    | 2024-01-12 | 2024-10-11 | 2039-01-12 |
| 25 | 4°      | Bottle outlet without pressure release | A sparkling water machine without pressure release<br>一种无泄压的气泡水机     | Utility model | 2024200888002   | CN221690685U    | 2024-01-15 | 2024-09-13 | 2034-01-15 |
| 26 | 4°      | SING, bottle hang                      | A soda maker<br>一种苏打水机                                               | Utility model | 2024201913266   | CN221105530U    | 2024-01-25 | 2024-06-11 | 2034-01-25 |
| 27 | 4°      | Electric automatic sparkling machine   | An electric sparkling water machine<br>一种电动气泡水机                      | Utility model | 2024202056867   | CN221411012U    | 2024-01-26 | 2024-07-26 | 2034-01-26 |
| 28 | 4°      | SMARTZZI                               | Soda maker (SMARTZZI)<br>苏打水机(SMATZZL)                               | Design        | 2024300541295   | CN308921886S    | 2024-01-26 | 2024-11-01 | 2039-01-26 |
| 29 | 4°      | Hanging-bottle auto-aligning machine   | A sparkling water machine<br>一种气泡水机                                  | Utility model | 2024203769039   | CN221785974U    | 2024-02-28 | 2024-10-01 | 2034-02-28 |
| 30 | 4°      | Modular soda maker                     | Soda maker<br>苏打水机                                                   | Utility model | 2024205000863   | CN221963413U    | 2024-03-14 | 2024-11-08 | 2034-03-14 |
| 31 | 4°      | Quick-release soda maker               | Soda maker<br>苏打水机                                                   | Utility model | 202420500012X   | CN222018148U    | 2024-03-14 | 2024-11-19 | 2034-03-14 |
| 32 | 4°      | Flavour-mixing soda maker              | Flavour-mixing structure for a soda maker<br>苏打水机的风味混合结构             | Utility model | 2024205004686   | CN222018149U    | 2024-03-14 | 2024-11-19 | 2034-03-14 |
| 33 | 4°      | Flavour-adding soda maker              | Flavour-injection device for a soda maker<br>苏打水机的风味注射装置             | Utility model | 2024205002074   | CN222194729U    | 2024-03-14 | 2024-11-19 | 2034-03-14 |
| 34 | 4°      | Electric automatic sparkling machine   | Limit mechanism and sparkling water machine<br>限位机构及气泡水机             | Utility model | 2024214033067   | CN222751841U    | 2024-06-18 | 2025-04-15 | 2034-06-18 |
| 35 | 4°      | GOSLING soda maker                     | Soda maker<br>苏打水机                                                   | Design        | 2024304020507   | CN309109325S    | 2024-06-28 | 2025-02-11 | 2039-06-28 |
| 36 | MIA     | BDA202201-Z24                          | Sparkling water machine<br>气泡水机                                      | Utility model | 202220028528X   | CN217243818U    | 2022-01-06 | 2022-08-23 | 2032-01-06 |
| 37 | MIA     | BDA202201-Z23                          | Sparkling water cup<br>气泡水杯                                          | Utility model | 2022200287567   | CN217243659U    | 2022-01-06 | 2022-08-23 | 2032-01-06 |
| 38 | MIA     | Water Cube soda maker                  | Soda maker<br>苏打水机                                                   | Design        | 202230656140X   | CN307920618S    | 2022-09-30 | 2023-03-17 | 2037-09-30 |
| 39 | MIA     | Ice, chilled water, sparkling          | Sparkling water machine<br>气泡水机                                      | Utility model | 2023210011238   | CN219699654U    | 2023-04-27 | 2023-09-19 | 2033-04-27 |
| 40 | MIA     | Insulated bottle for carbonated drinks | Insulated bottle<br>保温瓶                                              | Design        | 2024307820519   | CN309420353S    | 2024-12-09 | 2025-08-05 | 2039-12-09 |

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| 41 | MIA     | Cream machine                          | Cream machine<br>奶油机                                                      | Design        | 2024307820947   | CN309424959S    | 2024-12-09 | 2025-08-05 | 2039-12-09 |
| 42 | MIA     | Cream bottle                           | Cream bottle<br>奶油瓶                                                       | Design        | 202430782109X   | CN309420637S    | 2024-12-09 | 2025-08-05 | 2039-12-09 |
| 43 | MIA     | ROBERT, R-type A                       | Soda maker<br>苏打水机                                                        | Design        | 2024307820735   | CN309424958S    | 2024-12-09 | 2025-08-05 | 2039-12-09 |
| 44 | MIA     | One-press bottle mount                 | Sparkling water machine<br>气泡水机                                           | Utility model | 2024231083211   | CN223554657U    | 2024-12-16 | 2025-11-18 | 2034-12-16 |
| 45 | MIA     | Locking assembly                       | Locking assembly and sparkling water machine<br>锁紧组件及气泡水机                 | Utility model | 2024231119637   | CN223614597U    | 2024-12-16 | 2025-12-02 | 2034-12-16 |
| 46 | MIA     | Auto-unlock bottle mount               | Locking device and sparkling water machine<br>锁定装置及气泡水机                   | Utility model | 2024231708237   | CN223554662U    | 2024-12-20 | 2025-11-18 | 2034-12-20 |
| 47 | MIA     | Linked pumping                         | Sparkling water machine<br>气泡水机                                           | Utility model | 2024231948067   | CN223614587U    | 2024-12-23 | 2025-12-02 | 2034-12-23 |
| 48 | MIA     | Auto-unlock cream machine              | A cream machine<br>一种奶油机                                                  | Utility model | 2024231943044   | CN223554238U    | 2024-12-23 | 2025-11-18 | 2034-12-23 |
| 49 | MIA     | Two-flavour soda maker                 | Multi-flavour soda maker<br>多口味苏打水机                                       | Utility model | 2024232992993   | CN223715517U    | 2024-12-31 | 2025-12-26 | 2034-12-31 |
| 50 | MIA     | Insulated bottle for carbonated drinks | An insulated bottle<br>一种保温瓶                                              | Utility model | 2024233178841   | CN223759711U    | 2024-12-31 | 2026-01-06 | 2034-12-31 |
| 51 | MIA     | Quick-connect gas valve                | Quick-assembly structure and sparkling water machine<br>一种快速装配结构及气泡水机     | Utility model | 2025207049012   | CN224099167U    | 2025-04-14 | 2026-04-10 | 2035-04-14 |
| 52 | MIA     | Cream machine 1                        | Locking structure and gas-injection device<br>锁定结构及注气装置                   | Utility model | 2025210069914   | CN224261447U    | 2025-05-20 | 2026-04-08 | 2035-05-20 |
| 53 | MIA     | Cream machine 2                        | Gas valve assembly and gas-injection device<br>气阀总成及注气装置                  | Utility model | 2025210071308   | CN224261451U    | 2025-05-20 | 2026-04-01 | 2035-05-20 |
| 54 | MIA     | Quick-release cylinder                 | Quick-connect cylinder structure and inflation equipment<br>一种气瓶快接结构及充气设备 | Utility model | 2025218190343   | CN224756756U    | 2025-08-26 | 2026-09-15 | 2035-08-26 |
| 55 | MIA     | Bottle seal                            | A sparkling water bottle<br>一种气泡水瓶                                        | Utility model | 2025218102484   | CN224563189U    | 2025-08-26 | 2026-07-28 | 2035-08-26 |
| 56 | MIA     | SMARTZZI                               | Control panel for a soda maker (SMARTZZI)<br>苏打水机的控制面板 (samrtzzi)         | Design        | 2026300626343   | CN310208093S    | 2026-02-04 | 2026-09-15 | 2041-02-04 |

#### Notes

1. The legal term runs from the filing date — 20 years for an invention, 10 for a utility model, 15 for a design filed on or after 2021-06-01 (10 years for earlier filings); 10 years for a Taiwan utility model. “Valid to” is calculated from the filing date.
2. Whether a patent is kept alive depends on annuity payments. “In force” already excludes cases that lapsed, expired or were abandoned.
3. Granted patents that are no longer in force — three 4° filings from 2015 whose term expired, plus one Taiwan utility model we let lapse — and applications still under examination are not listed here; the full register is the Excel in the same folder. That is why the list has 56 entries while 60 have been granted.
4. Patent titles are the official Chinese titles on record at CNIPA. The English line is an unofficial translation, provided for reading only.
5. Product / project is our internal reference for the model a patent came from.
6. Every entry is filed in the name of 4° or MIA. Search any application number yourself at CNIPA (China National Intellectual Property Administration) — the register is public.