

TRUE COPY

TO ALL TO WHOM THESE PRESENTS SHALL COME,

I Do Hereby Certify that the annexed document(s) are TRUE COPIES of the original document(s) which I have compared. The original document(s) contains the authentic signature(s) from the inventor(s).

at Midland, Michigan 48674, USA
this 10th day of June 2025

Alexis Grove

Alexis Grove
Administrative Professional
THE DOW CHEMICAL COMPANY

NOTARIAL CERTIFICATE

UNITED STATES OF AMERICA)
STATE OF **MICHIGAN**) SS
County/Parish of **Midland**)

On this 10th day of June 2025, personally
appeared before me,

Alexis Grove

known or identified to me to be the individual who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed.

SEAL

Abby Davis
Notary Public

ABBY DAVIS
NOTARY PUBLIC - STATE OF MICHIGAN
COUNTY OF Saginaw
My Commission Expires September 27, 2026
Acting in the County of MIDLAND

ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE: **DOW GLOBAL TECHNOLOGIES LLC**
2211 H.H. Dow Way
Midland, Michigan 48674
United States of America

hereby accept the ASSIGNMENT which is dated: January 24, 2024

From, the ASSIGNOR: **DOW CHEMICAL (CHINA) INVESTMENT COMPANY LIMITED**
Unit 03, C Zone, 2F, 3rd Building, No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
Shanghai
201203
China

of the invention entitled:

METALIZED LAMINATE MATERIAL WITH SUPERIOR BARRIER PERFORMANCE

without any restrictions and with all rights and obligations deriving therefrom and declare that this confirmation of acceptance shall be deemed a part of the said ASSIGNMENT.

Signed at Midland, Michigan 48674, USA
this 1st day of February, 20 24

CORP.
SEAL

DOW GLOBAL TECHNOLOGIES LLC

By: Elisabeth T. Jozwik
ELISABETH T. JOZWIAK
Secretary

110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

ASSIGNMENT

(with Priority Rights)

and

INVENTORSHIP DECLARATION

We, ASSIGNOR, of: **DOW CHEMICAL (CHINA) INVESTMENT COMPANY LIMITED**
Unit 03, C Zone, 2F, 3rd Building, No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
Shanghai
201203
China

an entity organized and existing under the laws of CHINA do hereby claim and declare that we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof from the sole, true and first inventor(s):

Gang Wang, No. 936, Zhangheng Road, Shanghai Pilot Free Trade Zone, Shanghai, 201203, China;
Shijun Wang, No. 936 Zhangheng Road, Shanghai Pilot Free Trade Zone, Shanghai, 201203, China;
ChenYan Bai, No. 936 Zhangheng Road, Shanghai Pilot Free Trade Zone, Shanghai, 201203, China;
Zhe Du, No. 936 Zhangheng Road, Shanghai Pilot Free Trade Zone, Shanghai, 201203, China;
Xiaobing Yun, No. 936 Zhangheng Road, Shanghai Pilot Free Trade Zone, Shanghai, 201203, China;
Jianping Pan, No. 936, Zhangheng Road, Shanghai Pilot Free Trade Zone, Shanghai, 201203, China;
Gaobing Chen, No. 936 Zhangheng Road, Shanghai Pilot Free Trade Zone, Shanghai, 201203, China;
and Jianliang Zhu, No. 936 Zhangheng Road, Shanghai Pilot Free Trade Zone, Shanghai, 201203, China

by an Assignment dated: November 20, 2023; November 20, 2023; November 20, 2023; November 27, 2023; November 20, 2023; November 20, 2023; November 20, 2023; and November 20, 2023, respectively of an invention relating to and entitled:

METALIZED LAMINATE MATERIAL WITH SUPERIOR BARRIER PERFORMANCE

We do hereby declare, for good and valuable consideration, received, sell, assign, and transfer unto:

WE, the ASSIGNEE: **DOW GLOBAL TECHNOLOGIES LLC**
2211 H.H. Dow Way
Midland, Michigan 48674
United States of America

an entity organized and existing under the laws of the State of Delaware, United States of America our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make application for Letters Patent in its own name, or in the name of its nominee; and all rights and powers to file any reissue, divisional, continuing or substitute application and any corresponding applications in any and all countries, including all rights to claim priority under all International Conventions and Treaties in the name of said Assignee, and do hereby authorize said Assignee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
PCT/CN2023/092677	May 8, 2023	International

of the application on which the priority will be based; and in and to any Letters Patent that may be issued for said invention in any and all countries; and we do hereby agree to assist said Assignee in the prosecution of the said applications and in any interference, conflict, opposition or litigation which may arise involving said invention or the patent or patents thereon, and to execute any reissue, divisional, continuing or substitute application and assent to their making any applications in other countries corresponding to the above and below specifically identified application, as may be requested by said Assignee; and we do hereby authorize said Assignee to insert here the corresponding Application Number, Filing Date, and Filing Country

Application Number	Filing Date	Filing Country

of the corresponding application in any country where that patent property must be entered for recordal of this Assignment; and we do hereby authorize and request that any such Letters Patent be issued to said Assignee in accordance herewith, and consent to the recordal of this Assignment being under covenant, not only that we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

Subscribed and Sworn by us at Shanghai, China

this 24th day of January, 20 24

DOW CHEMICAL (CHINA) INVESTMENT COMPANY LIMITED

CORP
SEAL

By: Ximing Zhang
XIMING (JICK) ZHANG
Authorized Representative

ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE: **DOW CHEMICAL (CHINA) INVESTMENT COMPANY LIMITED**
 Unit 03, C Zone, 2F, 3rd Building, No. 936 Zhangheng Road
 Shanghai Pilot Free Trade Zone
 Shanghai
 201203
 China

hereby accept the ASSIGNMENT which is dated: November 20, 2023; November 20, 2023;
 November 20, 2023; November 27, 2023; November 20, 2023; November 20, 2023; November 20,
 2023; and November 20, 2023

From, the ASSIGNORS: Gang Wang, No. 936, Zhangheng Road, Shanghai Pilot Free Trade Zone,
 Shanghai, 201203, China; Shijun Wang, No. 936 Zhangheng Road, Shanghai Pilot Free Trade Zone,
 Shanghai, 201203, China; ChenYan Bai, No. 936 Zhangheng Road, Shanghai Pilot Free Trade Zone,
 Shanghai, 201203, China; Zhe Du, No. 936 Zhangheng Road, Shanghai Pilot Free Trade Zone,
 Shanghai, 201203, China; Xiaobing Yun, No. 936 Zhangheng Road, Shanghai Pilot Free Trade Zone,
 Shanghai, 201203, China; Jianping Pan, No. 936, Zhangheng Road, Shanghai Pilot Free Trade Zone,
 Shanghai, 201203, China; Gaobing Chen, No. 936 Zhangheng Road, Shanghai Pilot Free Trade Zone,
 Shanghai, 201203, China; and Jianliang Zhu, No. 936 Zhangheng Road, Shanghai Pilot Free Trade
 Zone, Shanghai, 201203, China

of the invention entitled:

METALIZED LAMINATE MATERIAL WITH SUPERIOR BARRIER PERFORMANCE

without any restrictions and with all rights and obligations deriving therefrom and declare that this
 confirmation of acceptance shall be deemed a part of the said ASSIGNMENT.

Signed at Shanghai, China
 this 24th day of January, 20 24

**DOW CHEMICAL (CHINA) INVESTMENT COMPANY
 LIMITED**

CORP.
 SEAL

By: Ximing Zhang
XIMING (NICK) ZHANG
 Authorized Representative

INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

(with Priority Rights)

I/we verily believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled: **METALIZED LAMINATE MATERIAL WITH SUPERIOR BARRIER PERFORMANCE**

which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for our respective employers. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work, I/we sell, assign and transfer unto:

Dow Chemical (China) Investment Company Limited
Unit 03, C Zone, 2F, 3rd Building, No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
Shanghai
201203
China

an entity organized and existing under the laws of China (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)); and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
PCT/CN2023/092677	May 8, 2023	International

of the application, on which the claim for priority will be based; and in and to any Letters Patent that may be issued for the invention in any and all countries. I/we do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation which may arise involving the invention or the patent or patents thereon, and to execute for any and all countries any document relating to applications derived from, corresponding to or equivalent to the above identified application as Assignee may request.

I/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

Subscribed and Declared by me/us:

At: Shanghai, China
this 17 day of Nov, 20 23
Effective as of May 8, 2023
Signature: Wang Gang
Full Name: Gang Wang
Mailing Address: No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
Shanghai
201203; China

At: Shanghai, China
this 20 day of Nov, 20 23
Effective as of May 8, 2023
Signature: Shijun Wang
Full Name: Shijun Wang
Mailing Address: No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
Shanghai
201203; China

At: Shanghai, China
this 20 day of Nov, 20 23
Effective as of May 8, 2023
Signature: Bai Chanyan
Full Name: ChenYan Bai
Mailing Address: No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
Shanghai
201203; China

At: Shanghai, China
this 21 day of Nov, 20 23
Effective as of May 8, 2023
Signature: Zhe Du
Full Name: Zhe Du
Mailing Address: No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
Shanghai
201203; China

At: Shanghai, China
this 20 day of Nov, 20 23
Effective as of May 8, 2023
Signature: Xiaobing Yun
Full Name: Xiaobing Yun
Mailing Address: No. 936 Zhang Heng Road
Shanghai Pilot Free Trade Zone
Shanghai
201203; China

At: Shanghai, China
this 20 day of Nov, 20 23
Effective as of May 8, 2023
Signature: Jianping Pan
Full Name: Jianping Pan
Mailing Address: No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
Shanghai
201203; China

(X) Additional names and signatures are attached.

Additional names, addresses and signatures to be attached to Form No. 110 INDIVIDUAL ASSIGNMENT AND INVENTORS DECLARATION

At: Shanghai, China
this 20 day of Nov., 2023.
Effective as of May 8, 2023
Signature: Chen, Gaobing
Full Name: Gaobing Chen
Mailing Address: No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
Shanghai
201203; China

At: Shanghai, China
this 20 day of Nov., 2023
Effective as of May 8, 2023
Signature: Zhu, Jianliang
Full Name: Jianliang Zhu
Mailing Address: No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
Shanghai
201203; China

At: _____
this _____ day of _____, 20____
Signature: _____
Full Name: _____
Mailing Address: _____

At: _____
this _____ day of _____, 20____
Signature: _____
Full Name: _____
Mailing Address: _____

ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE: **DOW GLOBAL TECHNOLOGIES LLC**
2211 H.H. Dow Way
Midland, Michigan 48674
United States of America

hereby accept the ASSIGNMENT which is dated: February 1, 2024

From, the ASSIGNOR:
THE DOW CHEMICAL COMPANY
2211 H.H. Dow Way
Midland, Michigan 48674
United States of America

of the invention entitled:

METALIZED LAMINATE MATERIAL WITH SUPERIOR BARRIER PERFORMANCE

without any restrictions and with all rights and obligations deriving therefrom and declare that this confirmation of acceptance shall be deemed a part of the said ASSIGNMENT.

Signed at Midland, Michigan 48674, USA

this 1st day of February, 20 24

CORP.
SEAL

DOW GLOBAL TECHNOLOGIES LLC

By: Elisabeth T. Jozwiak
ELISABETH T. JOZWIAK
Secretary

ASSIGNMENT

(with Priority Rights)
and
INVENTORSHIP DECLARATION

We, ASSIGNOR, of: **THE DOW CHEMICAL COMPANY**
2211 H.H. Dow Way
Midland, Michigan 48674
United States of America

an entity organized and existing under the laws of the State of Delaware, United States of America do hereby claim and declare that we hold the invention and all rights and powers obtainable or exercisable in respect thereof from the sole, true and first inventor(s)

Bo Xu, No. 936 Zhangheng Road, Zhangjiang Hi-Tech Park, Shanghai, 201203, China

by an Assignment dated November 26, 2023 of an invention relating to and entitled

METALIZED LAMINATE MATERIAL WITH SUPERIOR BARRIER PERFORMANCE

We do hereby declare, for good and valuable consideration, received, sell, assign, and transfer unto

WE, the ASSIGNEE: **DOW GLOBAL TECHNOLOGIES LLC**
2211 H.H. Dow Way
Midland, Michigan 48674
United States of America

an entity organized and existing under the laws of the State of Delaware, United States of America our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make application for Letters Patent in its own name, or in the name of its nominee; and all rights and powers to file any reissue, divisional, continuing or substitute application and any corresponding applications in any and all countries, including all rights to claim priority under all International Conventions and Treaties in the name of said Assignee, and do hereby authorize said Assignee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
PCT/CN2023/092677	May 8, 2023	International

of the application on which the priority will be based; and in and to any Letters Patent that may be issued for said invention in any and all countries, and we do hereby agree to assist said Assignee in the prosecution of the said applications and in any interference, conflict, opposition or litigation which may arise involving said invention or the patent or patents thereon, and to execute any reissue, divisional, continuing or substitute application and assent to their making any applications in other countries corresponding to the above and below specifically identified application, as may be requested by said Assignee, and we do hereby authorize said Assignee to insert here the corresponding Application Number, Filing Date, and Filing Country

Application Number	Filing Date	Filing Country

of the corresponding application in any country where that patent property must be entered for recordal of this Assignment, and we do hereby authorize and request that any such Letters Patent be issued to said Assignee in accordance herewith, and consent to the recordal of this Assignment being under covenant, not only that we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given

Subscribed and Sworn by us at **Midland, Michigan 48674, USA**

this 15th day of February, 2024

CORP
SEAL

THE DOW CHEMICAL COMPANY

By Darryl P. Frickey
DARRYL P. FRICKEY
 Authorized Representative

ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE: **THE DOW CHEMICAL COMPANY**
2211 H.H. Dow Way
Midland, Michigan 48674
United States of America

hereby accept the ASSIGNMENT which is dated: November 26, 2023

From, the ASSIGNOR: Bo Xu, No. 936 Zhangheng Road, Shanghai Pilot Free Trade Zone,
Shanghai, 201203, China

of the invention entitled:

METALIZED LAMINATE MATERIAL WITH SUPERIOR BARRIER PERFORMANCE

without any restrictions and with all rights and obligations deriving therefrom and declare that this confirmation of acceptance shall be deemed a part of the said ASSIGNMENT.

Signed at Midland, Michigan 48674, USA

this 1st day of February, 20 24

CORP.
SEAL

THE DOW CHEMICAL COMPANY

By:

D.P. Frickey
DARRYL P. FRICKEY
Authorized Representative

~~(S)~~

FORM 110-10-103

FORM 110 (R 5/97)

INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

I/we verily believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled: **METALIZED LAMINATE MATERIAL WITH SUPERIOR BARRIER PERFORMANCE**

which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for our respective employers. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work, I/we sell, assign and transfer unto:

The Dow Chemical Company
2211 H.H. Dow Way
Midland, Michigan 48674
United States of America

an entity organized and existing under the laws of the state of Delaware (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)); and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
PCT/CN2023/092677	May 8, 2023	International

of the application, on which the claim for priority will be based; and in and to any Letters Patent that may be issued for the invention in any and all countries. I/we do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation which may arise involving the invention or the patent or patents thereon, and to execute for any and all countries any document relating to applications derived from, corresponding to or equivalent to the above identified application as Assignee may request.

I/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

Subscribed and Declared by me/us:

At: Shanghai, China
this 26 day of July, 20 23
Effective as of May 8, 2023
Signature: [Signature]
Full Name: Bo Xu
Mailing Address: No. 936 Zhangheng Road
Shanghai Pilot Free Trade Zone
Shanghai
201203, China

At: _____
this _____ day of _____, 20 _____

Signature: _____
Full Name: _____
Mailing Address: _____

At: _____
this _____ day of _____, 20 _____
Signature: _____
Full Name: _____
Mailing Address: _____

At: _____
this _____ day of _____, 20____
Signature: _____
Full Name: _____
Mailing Address: _____