

Paul J. Riehle (SBN 115199)  
paul.riehle@faegredrinker.com  
**FAEGRE DRINKER BIDDLE & REATH LLP**  
Four Embarcadero Center  
San Francisco, California 94111  
Telephone: (415) 591-7500  
Facsimile: (415) 591-7510

Christine A. Varney (*pro hac vice*)  
cvarney@cravath.com  
Katherine B. Forrest (*pro hac vice*)  
kforrest@cravath.com  
Gary A. Bornstein (*pro hac vice*)  
gbornstein@cravath.com  
Timothy G. Cameron (*pro hac vice*)  
tcameron@cravath.com  
Yonatan Even (*pro hac vice*)  
veven@cravath.com

Lauren A. Moskowitz (*pro hac vice*)  
lmoskowitz@cravath.com  
Justin C. Clarke (*pro hac vice*)  
jcclarke@cravath.com  
M. Brent Byars (*pro hac vice*)  
mbbyars@cravath.com

[www.crvath.com](http://www.crvath.com)  
**CRAVATH, SWAINE & MOORE LLP**  
825 Eighth Avenue  
New York, New York 10019  
Telephone: (212) 474-1000  
Facsimile: (212) 474-3700

*Attorneys for Plaintiff Epic Games, Inc.*

**UNITED STATES DISTRICT COURT**

**NORTHERN DISTRICT OF CALIFORNIA**

EPIC GAMES, INC., a Maryland  
Corporation,

**Plaintiff,**

Case No. 3:20-CV-05671-JD

V.

GOOGLE LLC; GOOGLE IRELAND LIMITED; GOOGLE COMMERCE LIMITED; GOOGLE ASIA PACIFIC PTE. LIMITED; and GOOGLE PAYMENT CORP..

## **FIRST AMENDED COMPLAINT FOR INJUNCTIVE RELIEF**

### Defendants.

## TABLE OF CONTENTS

PRELIMINARY STATEMENT .....	1
PARTIES.....	13
JURISDICTION AND VENUE .....	15
INTRADISTRICT ASSIGNMENT .....	17
RELEVANT FACTS .....	17
I.     Google Dominates the Merchant Market for Mobile Operating Systems. ....	17
A.     The Merchant Market for Mobile Operating Systems .....	17
i.     Product Market Definition .....	17
ii.     Geographic Market Definition.....	19
B.     Google’s Monopoly Power in the Merchant Market for Mobile OSs .....	20
II.    Google Unlawfully Maintains a Monopoly in the Android App Distribution Market.....	23
A.     The Android App Distribution Market .....	25
i.     Product Market Definition .....	25
ii.     Geographic Market Definition.....	26
B.     Google’s Monopoly Power in the Android App Distribution Market.....	27
C.     Google’s Anti-Competitive Conduct Concerning the Android App Distribution Market .....	33
i.     Google’s Conduct Toward OEMs and Mobile Network Operators .....	33
ii.     Google’s Conduct Toward App Distributors and Developers.....	47
iii.     Google’s Conduct Toward Consumers.....	50
D.     Anti-Competitive Effects in the Android App Distribution Market.....	55
III.    Google Unlawfully Acquired and Maintains a Monopoly in the Android In-App Payment Processing Market. ....	57
A.     The Android In-App Payment Processing Market.....	57

1	i.	Product Market Definition .....	57
2	ii.	Geographic Market Definition.....	59
3	B.	Google's Monopoly Power in the Android In-App Payment	
4		Processing Market.....	59
5	C.	Google's Anti-Competitive Conduct Concerning the Android In-App	
6		Payment Processing Market .....	60
7	D.	Anti-Competitive Effects in the Android In-App Payment Processing	
8		Market.....	62
9	COUNT 1:	Sherman Act § 2 (Unlawful Monopoly Maintenance in the Android	
10		App Distribution Market) .....	63
11	COUNT 2:	Sherman Act § 1 (Unreasonable restraints of trade concerning	
12		Android App Distribution Market: OEMs) .....	64
13	COUNT 3:	Sherman Act § 1 (Unreasonable restraints of trade concerning	
14		Android App Distribution Market: Developer Distribution Agreement).....	66
15	COUNT 4:	Sherman Act § 2 (Unlawful Monopolization and Monopoly	
16		Maintenance in the Android In-App Payment Processing Market) .....	67
17	COUNT 5:	Sherman Act § 1 (Unreasonable restraints of trade concerning	
18		Android In-App Payment Processing Market: Developer Distribution	
19		Agreement) .....	68
20	COUNT 6:	Sherman Act § 1 (Tying Google Play Store to Google Play Billing).....	70
21	COUNT 7:	California Cartwright Act (Unreasonable restraints of trade in	
22		Android App Distribution Market: OEMs) .....	71
23	COUNT 8:	California Cartwright Act (Unreasonable restraints of trade in	
24		Android App Distribution Market: Developer Distribution Agreement).....	73
25	COUNT 9:	California Cartwright Act (Unreasonable restraints of trade in	
26		Android In-App Payment Processing Market: Developer Distribution	
27		Agreement) .....	75

1	COUNT 10: California Cartwright Act (Tying Google Play Store to Google Play Billing).....	77
2	COUNT 11: California Unfair Competition Law.....	79
3	PRAAYER FOR RELIEF .....	80
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		

On the basis of documents produced to date by Defendants Google LLC, Google Ireland Limited, Google Commerce Limited, Google Asia Pacific Pte. Limited, and Google Payment Corp. (collectively, “Google”), it is clear that very carefully phrased arguments in Google’s pending motion to dismiss give a misleading picture of the full scope of Google’s anticompetitive conduct. Accordingly, although Plaintiff Epic Games, Inc. (“Epic”) believes its initial Complaint was more than sufficient, it hereby alleges, by its undersigned counsel, as a First Amended Complaint, with knowledge with respect to its own acts and on information and belief as to other matters, as follows:

## **PRELIMINARY STATEMENT**

1. In 1998, Google was founded as an exciting young company with a unique motto: “Don’t Be Evil”. Google’s Code of Conduct explained that this admonishment was about “how we serve our users” and “much more than that . . . it’s also about doing the right thing more generally”.<sup>1</sup> Twenty-two years later, Google has relegated its motto to nearly an afterthought, and is using its size to do evil upon competitors, innovators, customers, and users in a slew of markets it has grown to monopolize. This case is about doing the right thing in one important area, the Android mobile ecosystem, where Google unlawfully maintains monopolies in multiple related markets and engages in unlawful restraints of trade, denying consumers the freedom to enjoy their mobile devices—freedom that Google always promised Android users would have.

2. Google acquired the Android mobile operating system more than a decade ago, promising repeatedly over time that Android would be the basis for an “open” ecosystem in which industry participants could freely innovate and compete

<sup>1</sup> Kate Conger, *Google Removes ‘Don’t Be Evil’ Clause from Its Code of Conduct*, Gizmodo (May 18, 2018), <https://gizmodo.com/google-removes-nearly-all-mentions-of-dont-be-evil-from-1826153393>.

1 without unnecessary restrictions.<sup>2</sup> Google's CEO, Sundar Pichai, represented in 2014  
 2 that Android "is one of the most open systems that I've ever seen".<sup>3</sup> And Andy Rubin,  
 3 an Android founder who is described by some as the "Father of Android", said when he  
 4 departed Google in 2013 that "at its core, Android has always been about openness".<sup>4</sup>  
 5 Since then, Google has changed its course of conduct, deliberately and systematically  
 6 closing the Android ecosystem to competition, breaking the promises it made. Google's  
 7 anti-competitive conduct has now been condemned by regulators the world over.

8       3. Epic brings claims under Sections 1 and 2 of the Sherman Act and  
 9 under California law to end Google's unlawful monopolization and anti-competitive  
 10 restraints in two separate markets: (1) the market for the distribution of mobile apps to  
 11 Android users and (2) the market for payment processing solutions for digital content  
 12 within Android mobile apps. Epic seeks to end Google's unfair, monopolistic and anti-  
 13 competitive actions in each of these markets, which harm device makers, app  
 14 developers, app distributors, payment processors, and consumers.

15       4. **Epic does not seek monetary compensation from this Court for**  
 16 **the injuries it has suffered.** Epic likewise does not seek a side deal or favorable  
 17 treatment from Google for itself. Instead, Epic seeks injunctive relief that would make  
 18  
 19

---

20       <sup>2</sup> See, e.g., Google Blog, News and notes from Android team, *The Benefits & Importance of*  
 21 *Compatibility*, (Sept. 14, 2012), <https://android.googleblog.com/2012/09/the-benefits-importance-of-compatibility.html> ("We built Android to be an open source mobile platform freely available to anyone wishing to use it . . . . This openness allows device manufacturers to customize Android and enable new user experiences, driving innovation and consumer choice."); Stuart Dredge, *Google's Sundar Pichai on wearable tech: 'We're just scratching the surface'*, The Guardian (Mar. 9, 2014), <https://www.theguardian.com/technology/2014/mar/09/google-sundar-pichai-android-chrome-sxsw> ("Android is one of the most open systems that I've ever seen"); Andy Rubin, *Andy Rubin's Email to Android Partners*, The Wall Street Journal (Mar. 13, 2013), available at <https://blogs.wsj.com/digits/2013/03/13/andy-rubins-email-to-android-partners/?mod=WSJBlog> ("At its core, Android has always been about openness").

26       <sup>3</sup> Stuart Dredge, *Google's Sundar Pichai on wearable tech: 'We're just scratching the surface'*, The  
 27 Guardian (Mar. 9, 2014), <https://www.theguardian.com/technology/2014/mar/09/google-sundar-pichai-android-chrome-sxsw>.

28       <sup>4</sup> Andy Rubin, *Andy Rubin's Email to Android Partners*, The Wall Street Journal (Mar. 13, 2013),  
 available at <https://blogs.wsj.com/digits/2013/03/13/andy-rubins-email-to-android-partners/?mod=WSJBlog>.

1 good on Google’s broken promise: an open, competitive Android ecosystem for all  
2 users and industry participants. Such injunctive relief is sorely needed.

3       5. Google has eliminated competition in the distribution of Android  
4 apps using myriad contractual and technical barriers. Google’s actions force app  
5 developers and consumers into Google’s own monopolized “app store”—the Google  
6 Play Store. Google has thus installed itself as an unavoidable middleman for app  
7 developers who wish to reach Android users and vice versa. Google uses this monopoly  
8 power to impose a tax that siphons monopoly profits for itself every time an app  
9 developer transacts with a consumer for the sale of an app or in-app digital content.  
10 Google further siphons off all user data exchanged in such transactions to benefit its  
11 own app designs and advertising business.

12       6. The conduct described below shows that Google’s persistent  
13 monopoly is the result of deliberate efforts by Google to achieve and maintain it. Not  
14 content with the contractual and technical barriers it has carefully constructed to  
15 eliminate competition, Google uses its size, influence, power, and money to induce third  
16 parties into anticompetitive agreements that further entrench its monopolies. For  
17 example, Google has gone so far as to share its monopoly profits with business partners  
18 to secure their agreement to fence out competition, has developed a series of internal  
19 projects to address the “contagion” it perceived from efforts by Epic and others to offer  
20 consumers and developers competitive alternatives, and has even contemplated buying  
21 some or all of Epic to squelch this threat.

22       7. If not for Google’s anti-competitive behavior, the Android  
23 ecosystem could live up to Google’s promise of open competition, providing Android  
24 users and developers with competing app stores that offer more innovation, significantly  
25 lower prices, and a choice of payment processors. Such an open system is not hard to  
26 imagine. Two decades ago, through the actions of courts and regulators, Microsoft was  
27 forced to open up the Windows for PC ecosystem. As a result, PC users have multiple  
28 options for downloading software onto their computers, either directly from developers’

1 websites or from several competing stores. No single entity controls that ecosystem or  
 2 imposes a tax on all transactions. And Google, as the developer of software such as the  
 3 Chrome browser, is a direct beneficiary of this competitive landscape. Android users  
 4 and developers likewise deserve free and fair competition.

5 \* \* \*

6 8. In today's world, virtually all consumers and businesses stay  
 7 connected, informed, and entertained through smart mobile computing devices such as  
 8 smartphones and tablets. Mobile applications ("apps") are innovative software products  
 9 that greatly contribute to those devices' value. Consumers the world over use smart  
 10 mobile devices and mobile apps to video chat with friends, pay bills, stay current with  
 11 the news, listen to music, watch videos, play games, and more.

12 9. Epic develops and distributes entertainment, social networking and  
 13 utility applications for personal computers, gaming consoles, and smart mobile devices.  
 14 Epic operates a store for the distribution of personal computer apps, which it would  
 15 have expanded to distribute Android apps but for Google's conduct. Epic also develops  
 16 and licenses *Unreal Engine*, a powerful software suite available to third-party  
 17 developers that allows them to create and distribute three-dimensional and immersive  
 18 digital content and apps, including Android apps, movies, and other three-dimensional  
 19 environments. Google's practices have impacted each of Epic's lines of business.



1           10. **App Development:** Epic develops multiple applications, including  
2 *Fortnite*, *Fall Guys* and *Rocket League*, the social networking app *Houseparty*, and apps  
3 that support Epic's *Unreal Engine*, such as *Live Link Face*, which enables users to  
4 capture facial animation with their mobile phones.

5           11. *Fortnite* is a massive virtual world where hundreds of millions of  
6 people connect, meet, play, talk, compete, dance, or attend concerts and cultural events.  
7 *Fortnite Battle Royale* offers users competitive gameplay as well as the opportunity to  
8 mingle, watch movies, attend concerts or participate in cultural events with friends and  
9 other users. *Fortnite Creative Mode* allows users to design and build their own  
10 experiences within the *Fortnite* universe.

11           a. *Fortnite* is free for everyone to download and experience, including  
12 by playing games, attending events, socializing with friends or  
13 creating new content. To generate revenue, Epic offers users various  
14 in-app purchases of content for use within the app, such as digital  
15 avatars, costumes, dances, concert or movie-themed items, or other  
16 cosmetic enhancements.



1                   b. In the first year after *Fortnite* was released in 2017, it attracted over  
2                   125 million users; in the years since, *Fortnite* has topped 400 million  
3                   users and has become a global cultural phenomenon.

4                  12. **App Distribution:** Epic operates an online app store, the Epic  
5 Games Store, which it launched in 2018. Titles available on the Epic Games Store  
6 include popular gaming apps (e.g., the *Grand Theft Auto* franchise) and non-gaming  
7 apps (e.g., Spotify, iHeartRadio). The Epic Games Store also distributes at least one  
8 third-party app store, itch.io. It offers developers an 88/12 revenue share arrangement  
9 for all revenues from the sale of a developer's games through the Epic Games Store.  
10 For in-app purchases, the Epic Games Store provides developers the choice of using the  
11 developer's own payment processor (at no fee) or Epic's own payment solution, Epic  
12 Direct Payment (for a fee equal to a 12% share of sales revenue).

13                 13. **Unreal Engine:** First launched in 1998, Epic's *Unreal Engine* is a  
14 powerful, three dimensional environment graphics engine used to build digital three-  
15 dimensional environments for multiple uses including architecture projects, film &  
16 television production, medical training, and more. *Unreal Engine* is used to create  
17 software applications on all major platforms (PC, Mac, Android, iOS, major gaming  
18 consoles and more) and for use in films, television and other fields.

- 19                 a. The *Unreal Engine*'s source code is free to use. For developers who  
20                 use *Unreal Engine* to develop and sell their games or other projects  
21                 commercially, Epic typically collects a 5% royalty after the  
22                 developer reaches \$1 million in gross sales. Alternatively,  
23                 developers can negotiate custom or royalty-free licenses with Epic.  
24                 b. *Unreal Engine* powers some of the world's most popular digital  
25                 games, including (in addition to *Fortnite*) PlayerUnknown's  
26                 Battlegrounds (known as "PUBG"), ARK, Gears of War,  
27                 Borderlands, and Batman: Arkham City.

1           c. The *Unreal Engine* is also used far beyond the realm of video games.  
2           *Unreal Engine* received its first Emmy in 2018 for its contribution to  
3           televised broadcasts such as the 2018 Winter Olympics, Super Bowl  
4           LII, and numerous e-sports tournaments. Since 2016, *Unreal Engine*  
5           has been used in more than 100 film and television productions. For  
6           example, *The Mandalorian*—Disney’s television series in the *Star*  
7           *Wars* franchise—was filmed on a stage set within a huge oval LED  
8           display. The exteriors and interiors—virtually every background and  
9           set—were created in *Unreal Engine* and displayed in real time  
10          behind the actors. Similarly, the popular HBO series *Westworld*  
11          turned to *Unreal Engine* to develop many of its visual effects. Car  
12          makers, including Audi and Ford, have used *Unreal Engine* for a  
13          variety of uses including automotive design and engineering, as well  
14          as developing digital showrooms in which customers can configure  
15          their vehicles with high-fidelity visuals. In aviation, Gulfstream  
16          visualizes its jets for its employees and clients. *Unreal Engine* has  
17          even helped brain surgeons train for and perform some of the most  
18          intricate and challenging aspects of brain surgeries by allowing for  
19          detailed real-time digital anatomy simulations. In total, *Unreal*  
20          *Engine* boasts a community of 11 million users.

21           d. As noted above, utility apps designed for use with *Unreal Engine* are  
22          available in the Google Play Store, including, *Unreal Match 3* and  
23          *Action RPG Game Sample*, both of which help developers learn how  
24          to use *Unreal Engine* to develop their own mobile games.

25           14. Similar to a PC or a Mac personal computer, smart mobile devices  
26          use an “operating system” or “OS” to provide core device functionality and to enable  
27          the operation of compatible programs. As with PCs, the commercial viability of an OS  
28

1 for mobile devices (a “mobile OS”) depends on the availability of a large number of  
2 compatible apps that cater to the preferences and needs of users.

3       15. Google controls the most ubiquitous OS in mobile devices, the  
4 Android OS. Android OS is used by billions of users the world over, and boasts nearly  
5 3 million compatible apps.

6       16. Android is the only commercially viable OS that is widely available  
7 to license by companies that design and sell smart mobile devices, known as original  
8 equipment manufacturers (“OEMs”). Accordingly, when OEMs select a mobile OS to  
9 install on their devices, they have only one option: Google’s Android OS. Google  
10 therefore has monopoly power in the market for mobile operating systems that are  
11 available for licensing by OEMs (the Merchant Market for Mobile Operating Systems  
12 (*infra* Part I)).

13       17. Google has not been satisfied with its control of the Android OS.  
14 Notwithstanding its promises to make Android devices open to competition, Google has  
15 deliberately changed its course of conduct, erecting contractual and technological  
16 barriers that foreclose competing ways of distributing apps to Android users, ensuring  
17 that the Google Play Store accounts for nearly all the downloads of apps from app stores  
18 on Android devices. Google thus maintains a monopoly over the market for distributing  
19 mobile apps to Android users, referred to herein as the “Android App Distribution  
20 Market” (*infra* Part II).

21       18. For example, through a series of revenue-sharing and licensing  
22 agreements with OEMs, Google bundles the Google Play Store with a set of other  
23 Google services that Android OEMs must have on their devices (such as Gmail, Google  
24 Search, Google Maps, and YouTube) and conditions the licensing of those services on  
25 an OEM’s agreement to pre-install the Google Play Store and to prominently display it.  
26 Google then interferes with OEMs’ ability to make third-party app stores or apps  
27 available on the devices they make, including through its so-called “Anti-Fragmentation  
28 Agreements” (“AFAs”) that foreclose OEMs from modifying Android to offer fast and

1 simple (or “frictionless”) downloading of apps in the same way they are offered through  
2 Google Play. These restrictions effectively foreclose competing app stores—and even  
3 single apps—from what could be a primary distribution channel. Google’s documents  
4 show that it pushes OEMs into making Google Play the exclusive app store on the  
5 OEMs’ devices through a series of coercive carrots and sticks, including by offering  
6 significant financial incentives to those that do so, and withholding those benefits from  
7 those that do not. Google’s documents further show that Google has erected these  
8 contractual barriers to competition for Android app distribution in the recognition that  
9 Google stands to lose billions of dollars if Android app distribution were opened to  
10 competition and competing Android app stores, including an “Epic Store”, were allowed  
11 to “gain full traction”.

12       19. Epic’s experience with one OEM, OnePlus, is illustrative. Epic  
13 struck a deal with OnePlus to make Epic games available on its phones through an Epic  
14 Games app. The Epic Games app would have allowed users to seamlessly install and  
15 update Epic games, including *Fortnite*, without obstacles imposed by Google’s Android  
16 OS. But Google forced OnePlus to renege on the deal, citing Google’s “particular[]  
17 concern” about Epic having the ability to install and update mobile games while  
18 “bypassing the Google Play Store”.

19       20. Another OEM, LG, told Epic that its contract with Google did not  
20 allow it to enable the direct distribution of apps, and that the OEM could not offer any  
21 functionality that would install and update Epic apps except through the Google Play  
22 Store.

23       21. Google also enforces anti-competitive restrictions against app  
24 developers and distributors. Specifically, Google contractually prohibits app developers  
25 and would-be distributors from offering on the Google Play Store any app that could be  
26 used to download other apps, *i.e.*, any app that could compete with the Google Play  
27 Store in app distribution. And Google further requires app developers to distribute apps  
28 through the Google Play Store if they wish to advertise those apps through valuable

1 advertising channels controlled by Google, such as ad placements on Google Search or  
2 on YouTube that are specially optimized to advertise mobile apps.

3           22. Finally, Google stifles or blocks consumers' ability to download app  
4 stores and apps directly from developers' websites. As anyone who has tried to  
5 download directly on an Android device knows, it is significantly different than the  
6 simple process available on a personal computer: directly downloading *Fortnite* on an  
7 Android device can involve a dozen steps, requiring the user to change default settings  
8 and bravely click through multiple dire warnings. Accordingly, leading Google Play  
9 executives have acknowledged that directly downloading *Fortnite* from a source other  
10 than Google Play is "an awful experience", and developers like Epic should "worry that  
11 most will not go through the 15+ steps". And even if a persistent user manages to  
12 install a competing app store, Google has prevented such stores from competing on  
13 equal footing with the Google Play Store by restricting them from offering basic  
14 functions, such as automatic updating of apps in the background, which is available for  
15 apps downloaded from the Google Play Store.

16           23. Google engages in these anticompetitive acts to eliminate consumer  
17 choice and competition in mobile app distribution. Google has no legitimate  
18 justification for these restrictions. Google therefore has changed its course of conduct,  
19 breaking its promise that Android would be an "open" ecosystem in which other  
20 participants could participate fairly.

21           24. But Google does not stop at app distribution. Google also imposes  
22 anti-competitive restrictions in the separate Market for Android In-App Payment  
23 Processing (*infra* Part III).

24           25. App developers who sell digital content for consumption within apps  
25 require seamless payment processing solutions to execute purchases. App developers,  
26 including Epic, have developed payment processing solutions internally. Others may  
27 use a host of payment processing solutions offered by multiple competing third parties.  
28

1           26. Google, however, ties distribution through its Google Play Store  
2 with developers' exclusive use of Google's own payment processing solution, called  
3 Google Play Billing, to process in-app purchases of digital content. Indeed, app  
4 developers that distribute through the Google Play Store are even prohibited from  
5 offering Android users the *choice* of additional payment processing options alongside  
6 Google's for digital content. And because Google has a monopoly in the Android App  
7 Distribution Market, app developers cannot practically avoid this anti-competitive tie by  
8 electing app distribution through an alternative channel.

9           27. The result is that in every in-app transaction for digital content, it is  
10 Google, not the app developer, that collects the payment in the first instance. Google  
11 then taxes the transaction at up to an exorbitant 30% rate, remitting the remaining 70%  
12 to the developer who actually made the sale. This 30% commission is often *ten times*  
13 higher than the price typically paid for the use of other electronic payment solutions.

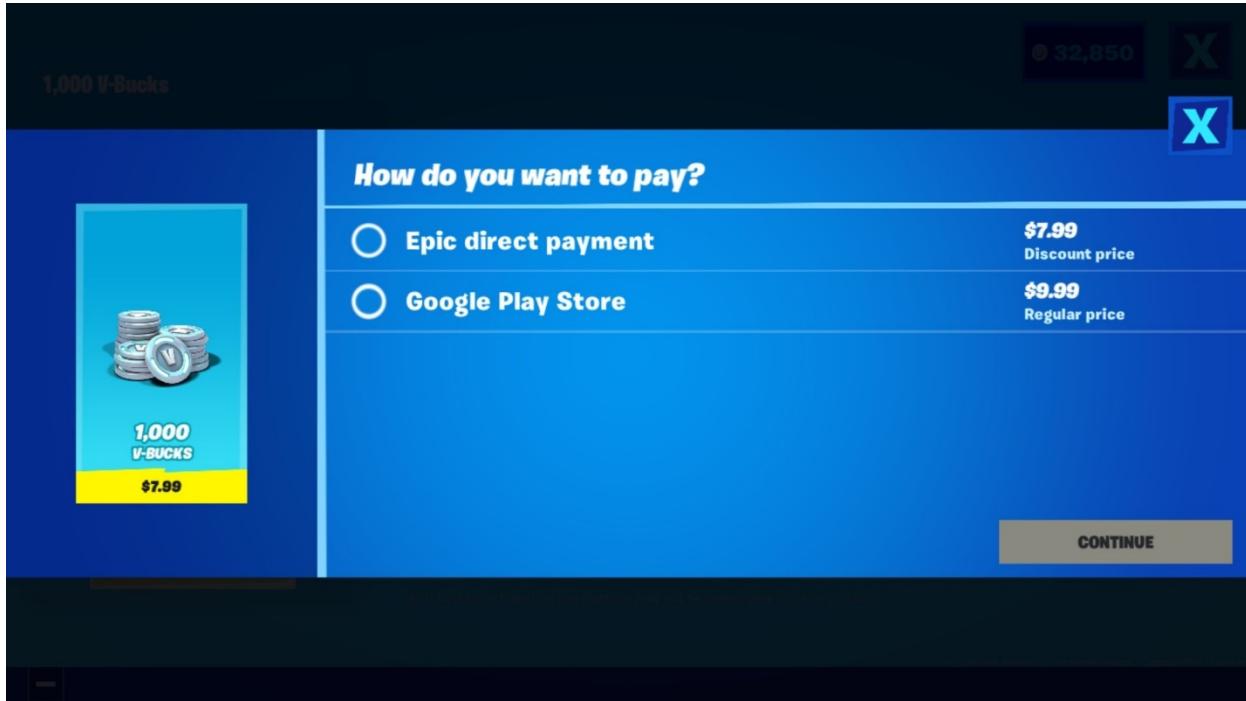
14           28. Moreover, through this tie, Google inserts itself as an intermediary  
15 between each seller and each buyer for every purchase of digital content within the  
16 Android ecosystem, collecting for itself the personal information of users, which Google  
17 then uses to give an anti-competitive edge to its own advertising services and mobile  
18 app development business.

19           29. Google's anticompetitive conduct has substantially foreclosed  
20 competing stores from offering consumers and developers choice in distribution and  
21 payment processing. Indeed, Epic, which distributes apps through its own store to users  
22 of personal computers, would open a store to compete with Google's and offer  
23 developers more innovation, better security, and more choice, including for in-app  
24 payment processing. App developers would not have to pay Google's supra-  
25 competitive tax of 30%, as the price of distribution and payment processing alike would  
26 be set by market forces rather than Google's fiat. Developers could address any  
27 payment-related issues (such as refunds) directly with their own customers, rather than  
28

1 through Google. And users and developers, jointly, would get to decide whether users'  
 2 data should be utilized for other purposes.

3       30. Google's anti-competitive conduct has injured Epic, both as an app  
 4 developer and as a potential competitor in app distribution and payment processing.  
 5 Epic repeatedly approached Google and asked to negotiate relief that would stop  
 6 Google's unlawful and anti-competitive restrictions on app developers and consumers.  
 7 But Google would not budge.

8       31. Because of Google's refusal to stop its ongoing anti-competitive and  
 9 unlawful conduct, on August 13, 2020, Epic began providing *Fortnite* users the choice  
 10 of using Epic's own direct payment tool as an alternative to Google's overpriced billing  
 11 tool, sharing with users who chose to use Epic's payment tool the resulting savings.



23       32. In retribution, Google removed *Fortnite* from Google Play Store  
 24 listings, preventing new users from obtaining the game. Google also prevented Android  
 25 users who acquired *Fortnite* from the Google Play Store from obtaining app updates  
 26 they needed to continue playing with their friends and family.

27       33. Epic has publicly advocated for years that Google cease the anti-  
 28 competitive conduct addressed in this First Amended Complaint. Google refused to

1 change its industry-impacting conduct. Instead, Google offered to placate Epic by  
2 offering it preferential terms on side deals, such as YouTube sponsorships and cloud  
3 services, if Epic agreed to distribute *Fortnite* in the Google Play Store and acceded to  
4 Google's 30% tax. Google has reached preferential deals with major mobile app  
5 developers, such as Activision Blizzard, as part of an initiative Google originally called  
6 Project Hug and now refers to as the Apps and Games Velocity Programs. These deals  
7 allow Google to keep its monopolistic behavior publicly unchallenged. But Epic is not  
8 interested in any side deals that might benefit Epic alone while leaving Google's anti-  
9 competitive restraints intact; instead, Epic is focused on opening up the Android  
10 ecosystem for the benefit of *all* developers and consumers.

11                   34. Accordingly, Epic seeks injunctive relief in court. Google's conduct  
12 has caused and continues to cause Epic financial harm, but Epic is ***not*** bringing this case  
13 to recover these damages; Epic is not seeking any monetary relief, but rather only an  
14 order enjoining Google from continuing to impose its anti-competitive conduct on the  
15 Android ecosystem.

## PARTIES

17                 35. Plaintiff Epic Games, Inc. is a Maryland corporation with its  
18 principal place of business in Cary, North Carolina. Epic was founded in 1991 by a  
19 college student named Tim Sweeney. Mr. Sweeney ran Epic out of his parents'  
20 basement and distributed, by mail, Epic's first commercial personal computer software,  
21 a game named *ZZT*. Since then, Epic has developed several popular entertainment  
22 software products that can be used on an array of platforms—such as personal  
23 computers, gaming consoles, and smart mobile devices. Epic also creates and  
24 distributes *Unreal Engine*, a powerful software suite that allows competing developers  
25 and others to create realistic three-dimensional content, including video games,  
26 architectural recreations, television shows, and movies. An Epic subsidiary also  
27 develops and distributes the popular *Houseparty* app, which enables video chatting and  
28 social gaming on smart mobile devices and personal computers. Worldwide,

1 approximately 400 million users have signed up to use Epic's apps and services, and  
2 each day 30 to 40 million individuals log into an Epic app, such as *Fortnite*, *Rocket*  
3 *League*, *Houseparty*, or the Epic Games Store.

4           36. Defendant Google LLC is a Delaware limited liability company with  
5 its principal place of business in Mountain View, California. Google LLC is the  
6 primary operating subsidiary of the publicly traded holding company Alphabet Inc. The  
7 sole member of Google LLC is XXVI Holdings, Inc., a Delaware corporation with its  
8 principal place of business in Mountain View, California. Google LLC contracts with  
9 all app developers that distribute their apps through the Google Play Store and is  
10 therefore a party to the anti-competitive contractual restrictions at issue in this  
11 Complaint.

12           37. Defendant Google Ireland Limited ("Google Ireland") is a limited  
13 company organized under the laws of Ireland with its principal place of business in  
14 Dublin, Ireland, and a subsidiary of Google LLC. Google Ireland contracts with all app  
15 developers that distribute their apps through the Google Play Store and is therefore a  
16 party to the anti-competitive contractual restrictions at issue in this Complaint.

17           38. Defendant Google Commerce Limited ("Google Commerce") is a  
18 limited company organized under the laws of Ireland with its principal place of business  
19 in Dublin, Ireland, and a subsidiary of Google LLC. Google Commerce contracts with  
20 all app developers that distribute their apps through the Google Play Store and is  
21 therefore a party to the anti-competitive contractual restrictions at issue in this  
22 Complaint.

23           39. Defendant Google Asia Pacific Pte. Limited ("Google Asia Pacific")  
24 is a private limited company organized under the laws of Singapore with its principal  
25 place of business in Mapletree Business City, Singapore, and a subsidiary of Google  
26 LLC. Google Asia Pacific contracts with all app developers that distribute their apps  
27 through the Google Play Store and is therefore a party to the anti-competitive  
28 contractual restrictions at issue in this Complaint.

40. Defendant Google Payment Corp. (“Google Payment”) is a Delaware corporation with its principal place of business in Mountain View, California, and a subsidiary of Google LLC. Google Payment provides in-app payment processing services to Android app developers and Android users and collects a 30% commission on many types of processed payments, including payments for apps sold through the Google Play Store and in-app purchases made within such apps.

## **JURISDICTION AND VENUE**

41. This Court has subject-matter jurisdiction over Epic’s federal antitrust claims pursuant to the Clayton Antitrust Act, 15 U.S.C. § 26, and 28 U.S.C. §§ 1331 and 1337. The Court has supplemental jurisdiction over Epic’s state law claims pursuant to 28 U.S.C. § 1367. The Court also has subject-matter jurisdiction over the state-law claims pursuant to 28 U.S.C. § 1332 based on the diversity of citizenships of Plaintiff, on the one hand, and of Defendants, on the other, and the amount in controversy exceeding \$75,000.

42. This Court has personal jurisdiction over the Defendants. Google LLC and Google Payment are headquartered in this District. All Defendants have engaged in sufficient minimum contacts with the United States and have purposefully availed themselves of the benefits and protections of United States and California law, such that the exercise of jurisdiction over them would comport with due process requirements. Further, the Defendants have consented to the exercise of personal jurisdiction by this Court.

43. Each of the Defendants except Google Payment is party to a Google Play Developer Distribution Agreement (the “DDA”) with Epic. Section 16.8 of the DDA provides that the parties “agree to submit to the exclusive jurisdiction of the federal or state courts located within the county of Santa Clara, California to resolve any legal matter arising from or relating to this Agreement”. Section 16.8 further provides that “[a]ll claims arising out of or relating to this Agreement or Your relationship with Google under this Agreement will be governed by the laws of the State of California,

1 excluding California's conflict of laws provisions." The claims addressed in this  
2 Complaint relate to the DDA or to Epic's relationship with Google under the DDA, or  
3 in the alternative such claims arise out of the same nucleus of operative facts as other  
4 claims as to which the Court may exercise personal jurisdiction over each Defendant, so  
5 that the exercise of pendent personal jurisdiction would be proper.

6       44. Google Payment is party to a Google Payments—Terms of  
7 Service—Seller Agreement with Epic. Section 11.3 of that Agreement provides that  
8 “[t]he exclusive venue for any dispute related to this Agreement will be the state or  
9 federal courts located in Santa Clara County, California, and each party consents to  
10 personal jurisdiction in these courts.” Section 11.3 further provides that “The laws of  
11 California, excluding California's choice of law rules, and applicable federal United  
12 States laws will govern this Agreement.” The dispute between Google Payment and  
13 Epic relates to the parties' Agreement, or in the alternative Epic's claims arise out of the  
14 same nucleus of operative facts as other claims as to which the Court may exercise  
15 personal jurisdiction over Google Payment, so that the exercise of pendent personal  
16 jurisdiction would be proper.

17       45. Venue is proper in this District pursuant to 28 U.S.C. § 1391(b)  
18 because Google LLC and Google Payment maintain their principal places of business in  
19 the State of California and in this District, because a substantial part of the events or  
20 omissions giving rise to Epic's claims occurred in this District, and because, pursuant to  
21 28 U.S.C. § 1391(c)(3), any Defendants not resident in the United States may be sued in  
22 any judicial district and their joinder with others shall be disregarded in determining  
23 proper venue. In the alternative, personal jurisdiction and venue also may be deemed  
24 proper under Section 12 of the Clayton Antitrust Act, 15 U.S.C. § 22, because  
25 Defendants may be found in or transact business in this District.

## INTRADISTRICT ASSIGNMENT

46. Pursuant to Civil Local Rule 3-2(c), this antitrust case shall not be assigned to a particular Division of this District, but shall be assigned on a District-wide basis.

## RELEVANT FACTS

### **I. Google Dominates the Merchant Market for Mobile Operating Systems.**

47. To understand how Google effectively monopolizes the Android App Distribution and Android In-App Payment Processing Markets, as described below in Parts II and III, it is helpful to understand the background of smart mobile devices and how Google effectively dominates the related Merchant Market for Mobile Operating Systems through its control over the Android operating system.

#### **A. The Merchant Market for Mobile Operating Systems**

##### **i. Product Market Definition**

48. Smart mobile devices are handheld, portable electronic devices that can connect wirelessly to the internet and are capable of multi-purpose computing functions, including, among other things, Internet browsing, using social media, streaming video, listening to music, or playing games. Smart mobile devices include smartphones and tablet computers. Many consumers may *only* have a smart mobile device and no other computer. Such consumers are particularly hard-hit by Google's unlawful conduct in mobile-related markets.

49. Like laptop and desktop personal computers, mobile devices require an operating system—or “OS”—that enables multi-purpose computing functionality. A mobile OS, just like the OS of any computer, is a piece of software that provides basic functionality to users of mobile devices such as button controls, touch commands, motion commands, and the basic “graphical user interface”, which includes “icons” and other visual elements representing actions that the user can take. A mobile OS also manages the basic operations of a smart mobile device, such as cellular or WiFi connectivity, GPS positioning, camera and video recording, speech recognition, and

1 other features. In addition, a mobile OS permits the installation and operation of mobile  
2 apps that are compatible with the particular OS and facilitates their use of the device's  
3 OS-managed core functionality.

4       50. To ensure that every user can access the basic functions of a mobile  
5 device "out of the box", that is at the time he/she purchases the device, an OEM must  
6 pre-install an OS on each device prior to its sale. This is similar to a personal computer  
7 that comes pre-installed with Microsoft Windows for PC or Apple's macOS for a Mac  
8 computer. OEMs design mobile devices to ensure the device's compatibility with a  
9 particular OS the OEM chooses for a particular model of mobile device, so that the  
10 device may utilize the capabilities of that OS. For OEMs, the process of implementing  
11 a mobile OS requires significant time and investment, making switching to another  
12 mobile OS difficult, expensive, and time-consuming.

13       51. The vast majority of OEMs do not develop their own OS and must  
14 choose an OS that can be licensed for installation on smart mobile devices they design.  
15 There is therefore a relevant Merchant Market for Mobile OSs comprising mobile OSs  
16 that OEMs can license for installation on the smart mobile devices they manufacture.  
17 The market does not include proprietary OSs that are not available for licensing, such as  
18 Apple's mobile OS, called iOS. Historically, the Merchant Market for Mobile OSs has  
19 included the Android OS, acquired and further developed by Google; the Tizen mobile  
20 OS, a partially open-source mobile OS that is developed by the Linux Foundation and  
21 Samsung; and the Windows Phone OS developed by Microsoft.

22       52. Some consumers continue to use cellular phones that do not have  
23 multi-purpose, computing functions. These simple phones resemble older "flip  
24 phones", for example; they are not part of the smart mobile device category. These  
25 phones do not support mobile apps such as *Fortnite* or *Houseparty* and are instead  
26 typically limited to basic cellular functionality like voice calls and texting. The simple  
27 operating systems on these phones, to the extent they exist, cannot support the wide  
28

1 array of features supplied by the OSs on smart mobile devices and are not part of the  
2 Merchant Market for Mobile OSs defined herein.

3       53. To the extent that electronic devices other than smart mobile devices  
4 use operating systems, those OSs are not compatible with mobile devices, and therefore  
5 are not included in the Merchant Market for Mobile OSs defined herein. For example,  
6 computing devices that are not handheld and portable, that are not capable of multi-  
7 purpose computing functions and/or that lack cellular connectivity—such as desktop  
8 computers, laptops, or gaming consoles—are not considered to be “smart mobile  
9 devices”. Gaming devices like Sony’s PlayStation 4 (“PS4”) and Microsoft’s Xbox are  
10 physically difficult to transport, require a stable WiFi or wired connection to operate  
11 smoothly, and require an external screen for the user to engage in game play. Thus,  
12 even for games, if a gamer owns, for example, a dedicated, non-portable gaming  
13 console such as a PS4, which connects to and enables gaming via his/her TV, he/she  
14 would not consider that PS4 a reasonable substitute for a mobile device like a  
15 smartphone (and therefore would not consider the OS for the PS4 a reasonable  
16 substitute for a mobile OS), nor would he/she consider the version of any game created  
17 for his/her PS4 to substitute for the mobile app version of such a game. That is because  
18 the portability (and typically for smartphones the cellular connectivity) of the mobile  
19 devices enable the consumer to play mobile games away from home or anywhere in the  
20 home. Indeed, for this reason, game developers often distribute multiple versions of an  
21 app, each of which is programmed for compatibility with a particular type of device and  
22 its operating system.

23           ii. Geographic Market Definition

24       54. OEMs license mobile OSs for installation on mobile devices  
25 globally, excluding China. Google’s operations in China are limited, and it does not  
26 make available many of its products for mobile devices sold within China. This is  
27 based in part on legal and regulatory barriers to the distribution of mobile OS-related  
28 software imposed by China. Further, while Google contractually requires OEMs

1 licensing Android outside of China not to sell any devices with competing Android-  
2 compatible mobile OSs, it imposes no such restriction on devices sold within China.  
3 Because the OEMs that sell Android mobile devices both within and outside China have  
4 committed to this contractual restriction, such OEMs must sell, outside of China,  
5 devices with Google's Android OS. The geographic scope of the relevant Merchant  
6 Market for Mobile OSs is therefore worldwide, excluding China.

7       **B. Google's Monopoly Power in the Merchant Market for Mobile OSs**

8       55. Google has monopoly power in the Merchant Market for Mobile  
9 OSs through its Android OS. As determined by the European Commission during the  
10 course of its investigation of Android, the Android OS, licensed to OEMs in relevant  
11 respects by Google, is installed on over 95% of all mobile devices sold by OEMs  
12 utilizing a merchant mobile OS. Indeed, Android OS is installed on nearly 75% of all  
13 smart mobile devices sold by *all* OEMs, including even those OEMs that use a  
14 proprietary mobile OS they developed exclusively for their own use (such as Apple's  
15 iOS).

16       56. A mobile ecosystem typically develops around a mobile OS, such as  
17 the Android OS. The "Android ecosystem" is a system of mobile products (such as  
18 devices, apps and accessories) designed to be inter-dependent and compatible with each  
19 other and the Android OS. Ecosystem participants include an array of participating  
20 stakeholders, such as Google, OEMs that make Android-compatible devices, developers  
21 of Android-compatible apps, Android app distribution platforms, including app stores,  
22 the makers of ancillary hardware such as headphones or speakers, cellular carriers, and  
23 others.

24       57. Mobile ecosystems benefit from substantial network effects—that is,  
25 the more developers that design useful apps for a specific mobile OS, the more  
26 consumers will be drawn to use the relevant OS for which those apps are designed; the  
27 more consumers that use an OS, the more developers want to develop even more apps  
28 for that OS. As determined in *United States v. Microsoft Corp.*, 87 F. Supp. 2d 30

1 (D.D.C. 2000), new entrants into an operating system market thus face an “applications  
 2 barrier to entry”. An applications barrier to entry arises because a new operating system  
 3 will be desirable to consumers only if a broad array of software applications can run on  
 4 it, but software developers will find it profitable to create applications that run on an  
 5 operating system only if there is a large existing base of users.

6       58. To overcome this challenge and to attract app developers and users,  
 7 Google has continuously represented that Android is an “open” ecosystem and that any  
 8 ecosystem participant could create Android-compatible products without unnecessary  
 9 restrictions. Indeed, Google LLC’s CEO, Sundar Pichai, represented in 2014 that  
 10 Android “is one of the most open systems that I’ve ever seen”.<sup>5</sup> And Andy Rubin, an  
 11 Android founder who is described by some as the “Father of Android”, said when he  
 12 departed Google in 2013 that “at its core, Android has always been about openness”.<sup>6</sup>

13       59. But the current reality is quite different. Despite these claims of  
 14 openness, Google has now effectively closed the Android ecosystem through its tight  
 15 control of the Android OS. And, as the dominant OS licensor, Google benefits from  
 16 substantial network effects which makes participation on its platform a “must-have”  
 17 market for developers.

18       60. As further described below, Google uses the Android OS to restrict  
 19 the apps and app stores OEMs are permitted to pre-install on the devices they make and  
 20 to impose deterrents to the direct distribution of competing app stores and apps to  
 21 Android users, all at the expense of competition in the Android ecosystem.

22       61. Because of Google’s monopoly power in the Merchant Market for  
 23 Mobile OSs, OEMs, developers and users cannot avoid such effects by choosing  
 24 another mobile OS. OEMs such as ZTE and Nokia have stated that other non-

---

25  
 26       <sup>5</sup> Stuart Dredge, *Google’s Sundar Pichai on wearable tech: ‘We’re just scratching the surface’*, The  
 27 Guardian (Mar. 9, 2014), <https://www.theguardian.com/technology/2014/mar/09/google-sundar-pichai-android-chrome-sxsw>.

28       <sup>6</sup> Andy Rubin, *Andy Rubin’s Email to Android Partners*, The Wall Street Journal (Mar. 13, 2013),  
 available at <https://blogs.wsj.com/digits/2013/03/13/andy-rubins-email-to-android-partners/?mod=WSJBlog>.

1 proprietary OSs are poor substitutes for the Android OS and are not a reasonable  
2 alternative to licensing the Android OS. One important reason is that other mobile OSs  
3 presently do not support many high-quality and successful mobile apps, which  
4 consumers find essential or valuable when choosing a mobile device. These  
5 circumstances have biased consumers against the purchase of mobile devices with non-  
6 proprietary mobile OSs other than Android OS. OEMs thus have no choice but to agree  
7 to Google's demands because it is critical that they be able to offer a popular mobile OS  
8 and corresponding ecosystem to consumers who are choosing which mobile device to  
9 purchase.

10       62. The Android OS was designed to be, and advertised as, “open  
11 source”, in that OEMs and others may use portions of the OS without a license from  
12 Google, or even create customized versions of the OS for their own purposes, called  
13 Android “forks”. But in reality, the Android OS is “open source” in name only. Google  
14 has entered into so-called Anti-Fragmentation Agreements (“AFAs”) with Android  
15 mobile OEMs that have prevented them from creating Android forks for mobile devices  
16 and which prevent OEMs from modifying Android to offer competing app stores  
17 without restrictions. Among other things, the AFAs prohibit OEMs from taking “any  
18 actions that may cause or result in the fragmentation of Android”, which is determined  
19 in Google’s “sole discretion”. Further, Android OEMs agree only to distribute  
20 “Android Compatible Devices”, meaning that they may not ship *any* devices running an  
21 Android fork. Android Compatible Devices also must comply with the “Android  
22 Compatibility Definition” document and pass the “Android Compatibility Test Suite”,  
23 both of which are maintained by Google. Among other things, the Android  
24 Compatibility Definition document requires OEMs to prompt users explicitly for  
25 permission to allow direct downloading of apps outside Google Play. The AFAs also  
26 prohibit Android OEMs from distributing certain software on devices that are not  
27 Android Compatible Devices, and bar OEMs from distributing, creating or promoting “a  
28

1 third-party software development kit (SDK) derived from Android or derived from  
2 Android Compatible Devices".

3       63. More recently, after the European Commission began investigating  
4 Google's Android-related practices, including the AFAs, Google transitioned to a new  
5 form of agreement with Android OEMs called the Android Compatibility Commitment  
6 ("ACC"). But the ACC terms are only marginally less restrictive than the AFA terms in  
7 that they allow OEMs to manufacture non-Android Compatible Devices on behalf of a  
8 third party and that are marketed under a third-party brand. However, they still  
9 substantially foreclose OEMs from distributing and marketing their own devices,  
10 including Android forks. Entering into an AFA or ACC is a precondition to an OEM  
11 being able to enter into a Mobile Application Distribution Agreement ("MADA") and  
12 Revenue Sharing Agreement ("RSA"), which are described below. As a result, all or  
13 almost all commercially significant mobile Android OEMs are bound by an AFA or  
14 ACC, which helps Google ensure that mobile OEMs do not develop an Android fork  
15 that could compete with Google's own version of the Android OS or provide features  
16 that would support third-party app stores that compete with Google Play.

17       64. Google's conduct described herein creates a further barrier to entry  
18 into the Merchant Market for Mobile OSs by, among other things, restricting the ability  
19 of OEMs to support alternatives to Google's version of Android and making it more  
20 difficult for consumers to switch to other mobile OSs.

21       **II. Google Unlawfully Maintains a Monopoly in the Android App Distribution  
22 Market.**

23       65. Mobile apps make mobile devices more useful and valuable because  
24 they add functionality to the mobile device that caters to the specific interests of each  
25 mobile device user. For example, they facilitate video chats with friends and family,  
26 banking online, shopping, job hunting, photo editing, reading digital news sources,  
27 editing documents, or playing a game like *Fortnite Battle Royale*. Many workers use  
28 their smart mobile device to check work schedules, access company email, or use other

1 employer software while outside the workplace. For many consumers, a smartphone or  
2 tablet is the only way to access these functions, because the consumer does not own a  
3 personal computer or because the consumer can only access the Internet using a cellular  
4 connection. But even when a consumer can perform the same or similar functions on a  
5 personal computer, the ability to access apps “on the go” using a handheld, portable  
6 device remains valuable, important, and distinct.

7       66. Whereas some apps may be pre-installed by OEMs, OEMs cannot  
8 anticipate all the various apps a specific consumer may desire to use. Moreover, many  
9 consumers have different preferences as to which apps they want, and it would be  
10 undesirable for OEMs to load the devices they sell with unwanted apps that take up  
11 valuable space on the mobile device. And many apps that consumers may ultimately  
12 use on their device will be developed after they buy the device. Accordingly,  
13 consumers who seek to add new functionalities to a mobile device and customize the  
14 device for their own use need to obtain and install mobile apps themselves after  
15 purchasing their device. Currently, on Android devices, this is done most often through  
16 the Google Play Store, Google’s own “app store”. The Google Play Store is a digital  
17 portal set up by Google and through which mobile apps can be browsed, searched for,  
18 purchased (if necessary), and downloaded by a consumer. App stores such as the  
19 Google Play Store, alongside several other ways by which apps can be distributed to the  
20 hundreds of millions of consumers using Android-based mobile devices, constitute the  
21 Android App Distribution Market, defined below.

22       67. Through various anti-competitive acts and unlawful restraints on  
23 competition, Google has substantially foreclosed competition and maintained a  
24 monopoly in the Android App Distribution market, causing ongoing harm to  
25 competition and injury to OEMs, app distributors, app developers, and consumers.  
26 Google’s restraints of trade belie representations Google currently makes to developers  
27 that “as an open platform, Android is about choice” and that app developers “can  
28 distribute [their] Android apps to users in any way [they] want, using any distribution

1 approach or combination of approaches that meets [their] needs”, including by allowing  
 2 users to directly download apps “from a website” or even by “emailing them directly to  
 3 consumers”.<sup>7</sup>

4           **A. The Android App Distribution Market**

5            i. Product Market Definition

6           68. There is a relevant market for the distribution of apps compatible  
 7 with the Android OS to users of mobile devices (the “Android App Distribution  
 8 Market”). This Market includes all the channels by which mobile apps may be  
 9 distributed to the hundreds of millions of users of mobile devices running the Android  
 10 OS. The Market primarily includes Google’s dominant Google Play Store, with smaller  
 11 stores, such as Samsung’s Galaxy Store and Aptoide, trailing far behind. Nominally  
 12 only, the direct downloading of apps without using an app store (which Google  
 13 pejoratively describes as “sideloading”) is also within this market.

14           69. App stores allow consumers to easily browse, search for, access  
 15 reviews on, purchase (if necessary), download, and install mobile apps, using the mobile  
 16 device itself and an Internet connection. OEMs find it commercially unreasonable to  
 17 ship a smart mobile device to a consumer without at least one app store installed, as a  
 18 consumer’s ability to obtain new mobile apps is an important part of the value provided  
 19 by smart mobile devices.

20           70. App stores selling mobile apps are currently OS-specific, meaning  
 21 they distribute only apps that are compatible with the specific mobile OS on which the  
 22 app store is used. A consumer who has a mobile device running the Android OS cannot  
 23 use apps created for a different mobile operating system. An owner of an Android OS  
 24 device will use an Android compatible app store, and such app stores distribute only  
 25 Android-compatible mobile apps. That consumer may not substitute an Android app  
 26 store with, for example, Apple’s App Store, as that app store is not available on Android

---

27           7 Google Play Developers Page, *Alternative Distribution Options*,  
 28 <https://developer.android.com/distribute/marketing-tools/alternative-distribution> (last accessed July 20,  
 2021).

1 devices, is not compatible with the Android OS, and does not offer apps that are  
2 compatible with the Android OS. Non-Android mobile app distribution platforms—  
3 such as the Windows Mobile Store used on Microsoft’s Windows Mobile OS or the  
4 Apple App Store used on Apple iOS devices—cannot substitute for Android-specific  
5 app distribution platforms, and they are therefore not part of the Android App  
6 Distribution Market defined herein.

7       71. Likewise, stores distributing personal computer or gaming console  
8 software are not currently compatible with the Android OS and do not offer Android-  
9 compatible apps: the Epic Games Store distributes software compatible with personal  
10 computers, the Microsoft Store for Xbox distributes software compatible with the Xbox  
11 game consoles, and the PlayStation Store distributes software compatible with the  
12 PlayStation game consoles. A user cannot download mobile apps for use on his/her  
13 Android device by using such non-Android OS, non-mobile software distribution  
14 platforms. They therefore are not part of the Android App Distribution Market.

15       72. The same is true even when an app like *Fortnite* is available for  
16 different types of platforms running different operating systems, because only the OS-  
17 compatible version of that software can run on a specific type of device or computer.  
18 Accordingly, as a commercial reality, an app developer that wishes to distribute mobile  
19 apps for Android mobile devices must develop an Android-specific version of the app  
20 and avail itself of the Android App Distribution Market.

21       73. In the alternative only, the Android App Distribution Market is a  
22 relevant, economically distinct sub-market of a hypothetical broader antitrust market for  
23 the distribution of mobile apps to users of all mobile devices, whether Android or  
24 Apple’s iOS.

25           ii. Geographic Market Definition

26       74. The geographic scope of the Android App Distribution Market is  
27 worldwide, excluding China. Outside of China, app distribution channels, including app  
28 stores, are developed and distributed on a global basis; OEMs, in turn, make app stores,

1 such as the Google Play Store, available on Android devices on a worldwide basis  
2 (except in China). China is excluded from the relevant market because legal and  
3 regulatory barriers prevent the operation of many global app stores, including the  
4 Google Play Store, within China. Additionally, app stores prevalent in China are not  
5 available, or have little presence, outside of China.

6           **B. Google's Monopoly Power in the Android App Distribution Market**

7           75. Google has monopoly power in the Android App Distribution  
8 Market.

9           76. Google's monopoly power can be demonstrated by, among other  
10 things, Google's massive market share in terms of apps downloaded. The European  
11 Commission determined that, within the Market, more than 90% of Android app  
12 downloads through app stores have been done through the Google Play Store. Indeed,  
13 although app stores for merchant mobile OSs other than Android are not included in the  
14 Android App Distribution Market, the European Commission found that the only such  
15 app store with any appreciable presence was the Windows Mobile Store, which was  
16 compatible with the Windows Mobile OS. The Commission determined that even if the  
17 Windows Mobile Store share was included in the market, the Google Play Store would  
18 still have had a market share greater than 90%. Google admits as much. A 2017  
19 internal Google report confirmed that “[the Google] Play Store dominates in all  
20 countries”, including the United States. Google has recognized that in one quarter (June  
21 to September 2016), app installations through channels other than Google Play  
22 (including direct downloads and competing app stores) amounted to a mere 4.4% of  
23 Android app downloads in the United States.

24           77. Other existing Android mobile app stores do not discipline Google's  
25 exercise of monopoly power in the Android App Distribution Market. No other app  
26 store is able to reach nearly as many Android users as the Google Play Store.  
27 According to the European Commission, the Google Play Store is pre-installed by  
28 OEMs on practically all Android mobile devices sold outside of China. As a result, no

1 other Android app store comes close to that number of pre-installed users. With the  
2 exception of app stores designed for and installed only on mobile devices sold by those  
3 respective OEMs, such as Samsung Galaxy Apps and the LG Electronics App Store, no  
4 other Android app store is pre-installed on more than 10% of Android devices, and  
5 many have no appreciable market penetration at all. Aptoide, for example, is an  
6 Android app store that claims to be the largest “independent” app store outside of China,  
7 but it comes pre-installed on no more than 5% of Android mobile devices.

8       78. Because of Google’s success in maintaining its monopoly in Android  
9 app distribution, there is no viable substitute to distributing Android apps through the  
10 Google Play Store. As a result, the Google Play Store offers over 3 million apps,  
11 including all of the most popular Android apps, compared to just 700,000 apps offered  
12 by Aptoide, the Android app store with the next largest listing. The Google Play Store  
13 thereby benefits from ongoing network effects based on the large number of  
14 participating app developers and users. The large number of apps attracts large numbers  
15 of users, who value access to a broad range of apps, and the large number of users  
16 attract app developers who wish to access more Android users. Android OEMs find it  
17 commercially unreasonable to make and sell phones without the Google Play Store, and  
18 they view other app stores as poor substitutes for the Google Play Store because of the  
19 lower number and lesser quality of apps they offer.

20       79. As further proof of its monopoly power, Google imposes a supra-  
21 competitive commission of 30% on the price of apps purchased through the Google Play  
22 Store, which is a far higher commission than would exist under competitive conditions.

23       80. Furthermore, Google’s monopoly power in app distribution is not  
24 constrained by competition at the smart mobile device level. Before a consumer can  
25 even consider purchasing an app, she must purchase a device on which to install and run  
26 apps. There are currently only two smartphone operating systems with significant  
27 market share, each at the core of a separate, differentiated ecosystem of devices,  
28 accessories, apps and services: Apple’s iOS and Google’s Android OS. When a

1 consumer wishes to purchase a smartphone, the first choice she must make therefore is  
2 which operating system she wants the device to run and which mobile ecosystem she  
3 wants to participate in. Android device users face significant switching costs and lock-  
4 in to the Android ecosystems that serves to protect Google's monopoly power, and  
5 consumers are unable to account for Google's anticompetitive conduct when they  
6 purchase a smart mobile device.

7       81. *First*, consumers are deterred from leaving the Android ecosystem  
8 due to the difficulty and costs of switching. Consumers choose a smartphone based in  
9 part on the OS that comes pre-installed on that device and the ecosystem in which the  
10 device participates (in addition to a bundle of other features, such as price, battery life,  
11 design, storage space, and the range of available apps and accessories). Once a  
12 consumer has selected a smartphone, the consumer cannot replace the mobile OS that  
13 comes pre-installed on it with an alternative mobile OS. Rather, a consumer who  
14 wishes to change the OS must purchase a new smartphone entirely, which is an  
15 investment that most consumers do not make more often than every two or three years.  
16 Many Android phones are cheaper than non-Android (*i.e.*, Apple) phones; for those  
17 users, a comparably-priced non-Android alternative simply isn't available. In addition,  
18 mobile OSs have different designs, controls, and functions that consumers must learn to  
19 navigate. Over time, consumers who use Android devices learn to operate efficiently on  
20 the Android OS. For example, the Android OS layout differs from iOS in a wide range  
21 of functions, including key features such as searching and installing "widgets" on the  
22 phone, organizing and searching the phone's digital content, configuring control center  
23 settings, and organizing photos. The cost of learning to use a different mobile OS is  
24 part of consumers' switching costs.

25       82. *Second*, switching from Android devices may also result in a  
26 significant loss of personal and financial investment that consumers put into the  
27 Android ecosystem. Because apps, in-app content and many other products are  
28 designed for or are only compatible with a particular mobile OS, switching to a new

1 mobile OS may mean losing access to such products or to data. Even if versions of such  
2 apps and products are available within the new ecosystem chosen by the consumer, the  
3 consumer would have to go through the process of downloading them again onto the  
4 new devices and may have to purchase them anew. As a result, the consumer may be  
5 forced to abandon his or her investment in at least some of those apps, along with any  
6 purchased in-app content and consumer-generated data on those apps. Because apps  
7 and device functionalities may not synchronize or operate efficiently across operating  
8 systems, existing Android users also face costs associated with “mixing and matching”  
9 different operating systems if they attempt to purchase a non-Android device. Whether  
10 across a consumer’s own set of personal devices (*e.g.*, a phone and a tablet), or across  
11 the consumer’s family or business, “mixing and matching” operating systems can  
12 significantly diminish the utility of applications, which raises an additional and  
13 significant barrier to switching.

14       83. *Third*, consumers are not able to avoid the switching costs and lock-  
15 in to the Android OS ecosystem by acquiring more information prior to the purchase of  
16 the Android device. The vast majority of mobile device consumers have no reason to  
17 inquire, and therefore do not know about, Google’s anticompetitive contractual  
18 restraints and policies. Furthermore, these consumers rationally do not give much  
19 weight to Google’s anticompetitive conduct and anticompetitive fees when deciding  
20 whether to purchase an Android device. Consumers consider many features when  
21 deciding which smartphone or tablet to purchase, including design, brand, processing  
22 power, battery life, functionality, and cellular plan. These features are likely to play a  
23 substantially larger role in a consumer’s decision as to which smart mobile device to  
24 purchase than Google’s anticompetitive conduct in the relevant markets, particularly  
25 given that a consumer may consider the direct monetary cost of Google’s conduct to be  
26 small relative to the price of smart mobile devices, if the consumer is even aware of the  
27 conduct or assigns it such a cost at all. For example, over time a typical Android user  
28 may make multiple small purchases of paid apps and in-app digital content—

1 accumulating to \$100 or less annually—but may spend several hundreds of dollars at  
2 once to purchase an Android smart mobile device.

3       84. Consumers are also unable to determine the “lifecycle price” of  
4 devices—*i.e.*, to accurately assess at the point of purchase how much they will end up  
5 spending in total (including on the device and all apps and in-app purchases) for the  
6 duration of their ownership of the device. Consumers cannot know in advance of  
7 purchasing a device all of the apps or in-app content that they may want to purchase  
8 during the usable lifetime of the device. Consumers’ circumstances may change.  
9 Consumers may develop new interests. They may learn about new apps or in-app  
10 content that becomes available only after purchasing a device. New apps and in-app  
11 content will continue to be developed and marketed after a consumer purchases a  
12 smartphone or tablet. All of these factors may influence the amount of consumers’ app  
13 and in-app purchases. Because they cannot know or predict all such factors when  
14 purchasing mobile devices, consumers are unable to calculate the lifecycle prices of the  
15 devices. This prevents consumers from effectively taking Google’s anticompetitive  
16 conduct into account when making mobile device purchasing decisions.

17       85. Because consumers face substantial switching costs and lock-in to  
18 the Android OS, developers can only gain access to these users by also participating in  
19 the Android ecosystem. Thus, developers face an even greater cost in not participating  
20 in the Android ecosystem—loss of access to hundreds of millions of Android OS users.

21       86. Google’s anticompetitive restraints and policies serve to maintain  
22 and increase the switching costs described above. For example, by restricting the  
23 manner in which consumers can discover, download and install app stores that compete  
24 with the Google Play Store and by restricting the functionality of such competing stores  
25 (*see* paragraphs 122-141 below), Google blocks the emergence of competing  
26 multiplatform app stores that could lower switching costs by cataloguing or tracking a  
27 user’s apps and purchases across different OSs. These various restrictions that increase  
28

1 switching costs impede the adoption of competing OSs, and thereby help perpetuate and  
2 strengthen Google's monopoly.

3       87. Moreover, the close relationship that Google maintains with Apple  
4 further reduces Google's incentive to compete, innovate, and invest in app distribution  
5 because Google benefits by cooperating with its "competitor" Apple. As Google's  
6 founder and former CEO Larry Page once told Apple CEO Steve Jobs during a private  
7 meeting in 2010 about a "partnership" between Android and iOS: "there will always be  
8 places we compete, and places where we cooperate". For example, for over 15 years,  
9 Google has maintained an agreement with Apple whereby Google pays Apple a  
10 significant percentage of revenue derived from searches run on iOS devices—an  
11 estimated **\$8-12 billion per year** in recent years, according to the U.S. Department of  
12 Justice—in exchange for Apple making Google Search the default search engine on the  
13 Safari browser, Siri voice command searches, and other search access points on Apple's  
14 devices. Default status on Apple devices is valuable to Google because Google search  
15 advertising is Google's main revenue source. And, through its agreements with Apple,  
16 Google ensures that its own search (and therefore search advertising) will be used on  
17 virtually *all* mobile devices, whether iOS or Android, as most consumers are unlikely to  
18 change these settings on their phone and will become Google Search users by default.  
19 Because Android and iOS account for over 99% of smartphone OSs installed on mobile  
20 devices, Google's agreement with Apple guarantees that Google will generate revenue  
21 from virtually all smartphone OS users, regardless of whether they choose to purchase  
22 iOS or Android devices.

23       88. Because Google reaps considerable profits from iOS users through  
24 its search arrangements with Apple, Google is not incentivized to compete more with  
25 Apple at the smartphone OS level and expend more resources attracting users from iOS  
26 to Android than it currently does. If it did not profit significantly from searches on iOS  
27 devices, Google might be more incentivized to, among other things, differentiate its  
28 Android platform from Apple with respect to the commissions it charges on app

1 transactions. If Android competed with iOS on app transactions, the market  
 2 competition would make Android apps cheaper for users and attract developers to  
 3 launch their apps first (or even only) on Android. Instead, Google and Apple are cozy  
 4 duopolists, offering virtually the same terms to developers and changing those terms in  
 5 tandem (if at all). After a meeting involving senior executives of Google and Apple,  
 6 notes of the meeting were exchanged between the two companies. The notes reflect:  
 7 “Our vision is that we work as if we are one company”.

8       **C. Google’s Anti-Competitive Conduct Concerning the Android App  
 9 Distribution Market**

10       89. Google has willfully and unlawfully maintained its monopoly in the  
 11 Android App Distribution Market through a series of related anti-competitive acts that  
 12 have substantially foreclosed competing ways of distributing apps to Android users.

13           i. Google’s Conduct Toward OEMs and Mobile Network Operators

14       90. Google imposes anti-competitive constraints on Android OEMs  
 15 based on their need for access to a viable Android app store and other important services  
 16 provided by Google.

17       91. *First*, Google conditions OEMs’ licensing of the Google Play Store,  
 18 as well as other essential Google services and the Android trademark, on OEMs’  
 19 agreements to provide the Google Play Store with preferential treatment compared to  
 20 any other competing app store. Specifically, to access the Google Play Store, Android  
 21 OEMs (which, as noted above, include virtually all OEMs that obtain an OS on the  
 22 merchant market) have signed a Mobile Application Distribution Agreement  
 23 (“MADA”) with Google. A MADA confers a license to a bundle of products  
 24 comprising proprietary Google apps, Google-supplied services necessary for  
 25 functioning of mobile apps, and the Android trademark. Through its MADAs with  
 26 Android OEMs, Google requires OEMs to locate the Google Play Store on the “home  
 27 screen”<sup>8</sup> of each mobile device. Android OEMs must further pre-install up to 30

---

28       <sup>8</sup> The default “home screen” is the default display, prior to any changes made by users, that appears  
 without scrolling when the device is in active idle mode (*i.e.*, is not turned off or in sleep mode).

1 Google mandatory apps and must locate these apps on the home screen or on the next  
2 screen, occupying valuable space on each user's mobile device that otherwise could be  
3 occupied by competing app stores and other services. These requirements ensure that  
4 the Google Play Store is the most visible app store any user encounters and place any  
5 other app store at a significant disadvantage.

6           92. Absent this restraint, OEMs could pre-install and prominently  
7 display alternative app stores to the purchasers of some or all of their mobile devices,  
8 allowing competing app stores the ability to vie for prominent placement on Android  
9 devices, increased exposure to consumers and, as a result, increased ability to attract app  
10 developers to their store. As an app distributor, Epic could and would negotiate with  
11 OEMs to offer consumers more choice with a prominently displayed app store. This  
12 would increase the distribution opportunities for Epic's own apps, as well as a variety of  
13 apps developed by third parties.

14           93. *Second*, Google's AFA and ACC compatibility standards require  
15 OEMs to implement Google's restrictions and foreclose OEMs from modifying Android  
16 to offer frictionless direct downloading of apps outside Google Play.

17           94. *Third*, Google forecloses developers' ability to effectively distribute  
18 Android app stores and apps directly to consumers outside the Google Play Store,  
19 including by entering "exclusivity" agreements with certain OEMs ensuring that Google  
20 Play is the *only* app store that may be pre-installed on the devices the OEMs sell.

21           95. As Google's own documents recognize, pre-installation of apps and  
22 app stores by an OEM presents a unique and particularly important opportunity for  
23 competing app distributors and app developers to reach Android users outside Google  
24 Play, especially new distributors seeking a foothold in Android app distribution. An  
25 OEMs' pre-installation of an icon corresponding to an app or app store on the device  
26 provides users of those devices convenient, trusted access to apps or app stores, without  
27 requiring consumers to seek out and acquire such apps or app stores on their own.  
28 Some OEMs may even compete for device buyers by offering mobile devices that

1 provide such easy access to desirable apps and app stores. For example, as described  
2 below, Epic invested substantial resources in optimizing a special, state-of-the-art  
3 version of *Fortnite* for OnePlus, an Android OEM, in exchange for OnePlus's  
4 agreement to enable a "one-touch" installation of *Fortnite* on its devices—only for that  
5 agreement to be blocked by Google's anti-competitive conduct.

6         96. Fearful that Epic and others would successfully begin distributing  
7 competing app stores in this way, Google designed and undertook coercive steps to  
8 foreclose this possibility. Specifically, Google has since 2019 entered agreements with  
9 certain OEMs restricting the OEMs from pre-installing other app stores on most or all of  
10 the new Android devices they sell. Pursuant to these exclusivity agreements, Google  
11 agrees to share with OEMs monopoly profits Google earns from its Search business  
12 (and in some cases, profits from the Play Store itself), in exchange for these OEMs'  
13 agreement not to pre-install alternative app stores. As described below, Google reached  
14 these agreements after specifically recognizing the competitive threat to its monopoly  
15 that Epic and other potential Android app distributors posed and Google intentionally  
16 designed these agreements to lock in Google's monopoly power in "high monetizing"  
17 geographies.

18         97. In 2018, Epic decided to launch *Fortnite* on Android—but not on  
19 Google Play. Epic developed and made available a *Fortnite Launcher* app (which later  
20 became *Epic Games Launcher*) that could be directly downloaded from its website and  
21 then used to install *Fortnite* (and, later, other Epic apps) on Android devices. Epic also  
22 entered into a Collaboration Agreement with Samsung pursuant to which Samsung  
23 would make available *Fortnite* to users of Samsung devices via the Samsung Galaxy  
24 Store. Historically, Samsung's app store had performed poorly—Google estimated that  
25 users spent only 3% of the time on the Samsung Galaxy Store that they spent on the  
26 Google Play Store. But Epic's partnership with Samsung and determination to bypass  
27 Google Play for distribution of *Fortnite* struck fear into senior Google executives, not  
28 only because it meant the loss of 30% of revenues that would be generated by the

1 Android version of one of the most popular apps in the world, but also because Epic was  
2 paving the way for other Android app developers to distribute their apps without relying  
3 on Google Play.

4           98. In particular, documents that Google’s Finance Director for  
5 Platforms and Ecosystems prepared for the CFO of Alphabet around the time of  
6 *Fortnite*’s launch on Android showed that Google feared what it termed a “contagion  
7 risk” resulting from more and more app developers forgoing Google Play. Google  
8 feared that the “contagion” would spread in this way: first, inspired by Epic’s example,  
9 “[p]owerful developers” such as “Blizzard, Valve, Sony, Nintendo”—creators of some  
10 of the most popular and profitable entertainment—would be “able to go on their own”,  
11 bypassing Play by directly distributing their own apps. Then, other “[m]ajor  
12 developers”, including Electronic Arts, King, Supercell and Ubisoft, will choose to “co-  
13 launch off Play”, collaborating to forego Google’s distribution services as well. And  
14 finally, Google even identified a risk that “[a]ll remaining titles [will] co-launch off  
15 Play”. Google calculated the total at-risk revenue from the threatened loss of market  
16 share in Android app distribution to be \$3.6B, with the probability-weighted loss  
17 “conservative[ly]” estimated at \$550M through 2021. Google also recognized that the  
18 “[r]ecent Fortnite + Samsung partnership further amplifies risk & urgency of problem”  
19 facing its monopoly position in Android app distribution. Google was determined not to  
20 let this happen.

21           99. The first step Google took to prevent this “contagion” was its  
22 decision to offer Epic a special deal to launch *Fortnite* on Google Play. In July 2018,  
23 senior Google executives held a special, irregular “off-cycle” meeting of its Business  
24 Council, comprised of some of the Google’s highest ranking executives including  
25 Alphabet’s CFO. At this meeting, the Google Play team sought approval for a  
26 “[c]ustom, cross-PA [cross–product area] partnership with Epic Games worth up to  
27 \$208M (incremental cost to Google of \$147M) over 3 years”. The notes from this  
28 meeting indicate that Google believed Epic was choosing to distribute *Fortnite* off

1 Google Play “to express frustration [about] closed ecosystems (iOS, consoles) through  
 2 use of [direct downloading] on Android to distribute via their website” and that such an  
 3 action would “threaten Play revenue (\$130M) and [the] broader business model”. The  
 4 rationale for the deal also included the “[h]igh risk of contagion”, with “up to \$310M in  
 5 revenue at risk”. When one Google executive asked for “the exact Play store rev share  
 6 if we can get to the deal with them”, a Director of Finance responded that “[t]he key  
 7 premise of this proposal is that we would protect the rev share terms and hold them at  
 8 the 70/30 split in line with our current business model to ensure we don’t establish a  
 9 precedent that puts at risk our broader ecosystem”. He represented to the Business  
 10 Council that the additional revenue share to Epic was roughly 5%, meaning, after  
 11 accounting for the special benefits Google had determined to offer, Google would  
 12 receive an effective discounted revenue share of 25% rather than the standard 30%  
 13 share. The Business Council approved the offer to Epic.

14           100. As part of these efforts, senior Google Play managers began reaching  
 15 out to Epic. One manager contacted Epic’s Vice President and Co-Founder to gauge  
 16 Epic’s interest in a special deal and, among other things, discussed “the experience of  
 17 getting Fortnite on Android” via direct downloading. The manager’s call notes state  
 18 that she viewed direct downloading *Fortnite* as “frankly abysmal” and “an awful  
 19 experience”, and that Epic should “worry that most will not go through the 15+ steps”.

20           101. Google recognized that Epic might not accept its offer. “As a  
 21 potential alternative”, a senior Google executive proposed that Google “consider  
 22 approaching Tencent”, a company that owns a minority stake in Epic, “to either (a) buy  
 23 Epic shares from Tencent to get more control over Epic”, or “(b) join up with Tencent to  
 24 buy 100% of Epic”. Another senior Google executive suggested that if Epic chose not  
 25 to launch *Fortnite* on Google Play, Google could “lock down Play/Android and [not]  
 26 allow sideloading (or make it very hard to sideload (policy position or even architecture)  
 27 - difficult move in the face of the EC decision but we have good privacy/security  
 28 arguments about why sideloading is dangerous to the user)”.

1           102. Epic rejected Google's special deal, opting instead to distribute  
2 *Fortnite* for Android via Epic's website and through a partnership with the large  
3 Android OEM, Samsung. In the immediate wake of that decision, to discourage  
4 consumers from direct downloading *Fortnite*, the Google Play security team began  
5 collecting "exciting" statistics on "fake apps caught by [Google Play Protect] from off-  
6 Play downloads" that it shared not with Epic or users, but rather with a Google  
7 Communications Manager for use in "coverage" by journalists of Epic's decision to  
8 launch *Fortnite* off Google Play.

9           103. More broadly, Epic's decision to launch *Fortnite* for Android off  
10 Google Play motivated Google to execute a series of anticompetitive actions to limit the  
11 "contagion". Among other initiatives discussed below, Google increased its focus on  
12 the nascent competitive threats posed by Epic and others who may be able to offer  
13 alternative app stores on Android, including by negotiating for pre-installation of such  
14 app stores with OEMs. In a 2019 presentation prepared by Google Play's finance team,  
15 Google estimated that the most likely scenario among the scenarios it considered was  
16 that Epic would strike a deal for the distribution of its Epic Games Store with "1 mobile  
17 OEM" or as many as "3-5 mobile OEMs", in addition to the Collaboration Agreement it  
18 had entered with Samsung. Google forecasted that Epic's Android store would attract  
19 numerous developers who would "migrate Mature Western/US titles to Epic store",  
20 which would capture "50% spend in those games on those devices". Indeed, Google  
21 recognized that Epic's entry could dramatically reduce the barriers faced by new market  
22 entrants: "[e]very developer that follows Epic's path & launches on the Epic store will  
23 have less friction & a larger addressable user base than title before it". And even if a  
24 developer attracted fewer users by supporting a new market entrant rather than relying  
25 on Google Play, they could still earn more revenue due to the favorable 88/12 revenue  
26 share offered by the Epic Games Store: "[d]evelopers can afford to take a ~20%  
27 performance hit on Epic store (due to 88% rev share) and still break-even". In the 2019  
28 document, Google estimated that entry by Epic Games Store alone threatened a "[m]ost

1 [I]likely loss” of \$350M of Google’s monopoly revenue, and a “[m]ax risk” of \$1.4B, by  
2 2022; Google also identified a probability weighted combined loss of \$1.1B and \$6B of  
3 total at-risk revenue “if other store(s)”, including those distributed by Samsung and  
4 Amazon, were able to “gain full traction”.

5 104. Recognizing the threat that preinstalled app stores could pose to  
6 Google Play’s dominance, Google took action to ensure that OEMs would not enter into  
7 partnerships with distributors like Epic. Less than a year after having been found by the  
8 European Commission to have monopoly power in an Android app distribution market,  
9 Google devised and executed a plan to eliminate the risk of the “contagion” of  
10 competition that was threatening Google’s monopoly.

11 105. Google’s anticompetitive conduct proceeded in this way: Google  
12 began offering OEMs the chance to participate in its “Premier Device Program”  
13 beginning in 2019. Although Google had previously offered OEMs that signed its  
14 restrictive MADAs the chance to participate in an RSA, the new “Premier” tier RSAs  
15 and similar agreements contain even more restrictions on OEMs. Google’s own  
16 documents recognize that the “Premier” tier agreements mandate “Google exclusivity  
17 and defaults for all key functions: No apps with APK install rights” on Premier devices,  
18 meaning that the OEM cannot install any apps with the ability to install other apps (in  
19 other words, app stores, or the *Fortnite Launcher* Epic sought to distribute outside of  
20 Play). Google recognized that the new Premier agreements result in “Exclusivity” for  
21 Google Play on covered devices. In exchange for these exclusivity commitments,  
22 Google offered OEMs various forms of financial incentives, including 4% of Google’s  
23 Search revenues earned on the covered devices (on top of the 8% of Search revenues  
24 Google already commits to OEMs who sign a non-Premier RSA and a MADA), as well  
25 as other financial incentives such as monthly bonuses. For certain OEMs, including LG  
26 and Motorola, Google also agreed to pay between 3-6% of “Play spend” incurred on  
27 Premier devices manufactured by the OEMs, structuring the deal “to increase overall  
28 appeal” and lock-in its monopoly power in “high monetizing [geographies]” (such as in

1 the United States, where LG and Motorola sell the most popular Android mobile  
2 devices outside of Samsung devices). Google’s RSAs play a significant role in inducing  
3 OEMs to sign a MADA, because OEMs cannot have the benefits of an RSA without  
4 being a party to a MADA.

5           106. Although the exact terms of the agreements vary, to take one  
6 illustrative example, Google executed a “Premier” tier RSA with OEM HMD Global,  
7 which sells Nokia-branded mobile devices, effective December 1, 2019, through  
8 November 30, 2022.

9           107. Section 5.1 of Google’s RSA with HMD Global requires that each  
10 “Premier Device” (*i.e.*, those devices that comply with all restrictions contained in  
11 Section 5) comply with “all requirements set forth in Attachment C (Premier Service  
12 Access Points)”, which mandates that the Google Play app “[i]con is placed on the  
13 Default Home Screen and Google Play app is set as default marketplace for  
14 applications, games, books, movies, music, and all other digital content (including  
15 subscriptions)”.

16           108. Moreover, under Section 5.1(d), HMD Global is required to comply  
17 with the “Premier Device Program Requirements Document”. Epic believes based on  
18 the reference in the RSA to “restriction[s] on the installation of applications with  
19 INSTALL-PACKAGE permissions set forth in Section 3.7 (Application Preloads) of the  
20 Premier Device Program Requirements”, that this document is likely to contain further  
21 anticompetitive requirements. Google also has published “Premier Tier Program  
22 Requirements” on its “Android Partners” website—a document that appears to be  
23 related to the “Premier Device Program Requirements Document” that Google has not  
24 yet produced. There, Google provides again that Android OEMs releasing devices  
25 designated as “Premier” must not include apps that might compete with Google Play. In  
26 Section 3.7, Google commands that “[a]pplication preloads” “MUST NOT contain  
27 INSTALL\_PACKAGES permissions”, *i.e.* must not be able to install other applications,  
28 an essential function of an app store. Google further instructs that pre-loaded apps

1 “MUST NOT overlap with the following Google preloads in terms of the applications,  
2 features or functionality: . . . Google Play”. Google also expressly prohibits “[first-  
3 party] installers and [third-party] engines powering [first-party] installers . . . without  
4 Google’s prior review and approval”, and makes clear that such installers may not  
5 “promote Alternative Services”, which includes alternative app stores. Further,  
6 preloaded apps that are permitted “MUST be available in Google Play”, further ensuring  
7 that Android app developers cannot forego Google’s app distribution services or the  
8 anti-competitive restrictions Google imposes on developers.

9       109. As a further restriction, Section 5.2, relating to the configuration of  
10 Google Play and other Google Apps, requires that HMD Global agree that it “will not . .  
11 . include in any manner on a Premier Device . . . any Alternative Service, or any  
12 application, bookmark, product, service, icon, launcher, Hotword, Gesture, or  
13 functionality that has the primary purpose of providing access to any Alternative  
14 Service” nor may “introduce, promote, or suggest (including via over-the-air prompt) an  
15 Alternative Service to an End User”. The agreement defines Alternative Service as  
16 including any “Alternative Play Service”, defined as “any service that is substantially  
17 similar to Google Play (as determined by Google in its sole discretion)”.

18       110. In addition, under Section 11.1, entitled “Shared Revenue”, Google  
19 expressly conditions HMD Global’s receipt of “Shared Net Play Transaction Revenue”  
20 and “Shared Net Ad Revenue” on HMD Global maintaining compliance with the  
21 requirements of “Sections 3 through 5 (regarding Device requirements)”.

22       111. More recently, Google has reached agreements with OEMs in the  
23 form of “Mobile Incentive Agreements” (“MIAs”). In one such agreement involving  
24 Motorola, Google conditioned Motorola’s receipt of “Monthly Incentives” on  
25 Motorola’s promises not to “include in any manner on a Foundation Tier Device . . .  
26 Any Alternative Service, or any application, service, or functionality that has the  
27 primary purpose of providing access to any Alternative Service” and not “to introduce,  
28 promote or suggest (including via over-the-air prompt) an Alternative Service to an End

1 User” on such devices. The “Alternative Services” prohibited by Google include any  
2 “Alternative Play Service”, which is defined to mean “any service that is substantially  
3 similar to Google Play (as determined by Google in its sole discretion”.

4           112. Google’s efforts to foreclose competition in this way were a  
5 resounding success. Within a matter of months after the Premier Device Program  
6 began, Google recognized that the program had successfully eliminated the “risk of  
7 contagion”. By May 2020, many of the world’s largest and most popular Android  
8 OEMs had agreed to Google Play exclusivity for most of their new Android devices.  
9 Motorola and LG—which Google had targeted for extra financial incentives—both  
10 committed nearly all (98% and 95%) of their devices to the Premier program. The giant  
11 Chinese conglomerate BBK—which manufactures and sells a range of Android devices  
12 under its Oppo, Vivo and OnePlus brands, among others—had designated around 70%  
13 of its new devices as “Premier”. Other brands participating in the program included  
14 Xiaomi (40%), HMD (which manufactures devices with the Nokia Mobile brand)  
15 (100%), Sony (50%), Sharp (50%) and “Other” (80%). In a presentation prepared by  
16 and presented to senior Google Play executives, Google noted that in the short time  
17 since the beginning of the program, over 200 million new devices were covered. The  
18 same presentation shows that Google believed that the new RSAs successfully  
19 eliminated the “risk of app developer contagion”; noting that there was “no risk” under  
20 the “Current Premier tier”.

21           113. In the same presentation, Google recognized that the Premier Device  
22 Program had “impact[ed]” “Epic’s ability to preload” its apps by negotiating with  
23 OEMs. Google’s Premier RSAs (and MIAs) thus intentionally and directly resulted in  
24 the substantial foreclosure of an important, alternative method of app distribution on  
25 Android: installation by OEMs. Indeed, Epic had reached an agreement with OnePlus,  
26 one of the brands owned by BBK, to allow users of OnePlus mobile devices to  
27 seamlessly install *Fortnite* and other Epic apps by touching an Epic Games app on their  
28 devices—without encountering any obstacles typically imposed by the Android OS on

1 apps directly downloaded from developers. In conjunction with this agreement, Epic  
 2 designed a version of *Fortnite* for certain OnePlus devices that delivers a state-of-the-art  
 3 framerate (the frequency at which consecutive images appear on the device’s screen),  
 4 providing an even better user experience for *Fortnite*. Although the original agreement  
 5 between Epic and OnePlus contemplated making this installation method available  
 6 worldwide, Google demanded that OnePlus not implement its agreement with Epic with  
 7 the limited exception of mobile devices sold in India. OnePlus informed Epic that  
 8 Google was “particularly concerned that the Epic Games app would have ability to  
 9 potentially install and update multiple games with a silent install bypassing the Google  
 10 Play Store”.<sup>9</sup> Further, OnePlus advised that any waiver of Google’s restriction “would  
 11 be rejected due to the Epic Games app serving as a potential portfolio of games and  
 12 game updates”. As a result, OnePlus mobile device users in India can install Epic apps  
 13 seamlessly without using the Google Play Store, while users outside India cannot.

14       114. Another OEM who participated in a Premier RSA, LG, also told  
 15 Epic that it had a contract with Google “to block side downloading off Google Play  
 16 Store this year”, but that the OEM could “surely” make Epic apps available to  
 17 consumers if the Google Play Store were used. Google prevented LG from pre-  
 18 installing the Epic Games app on LG devices.

19       115. Google’s Premier Device Program was not publicly known, and was  
 20 not known to Epic, before Google recently began producing relevant documents in this  
 21 litigation. Google has sought to conceal its most restrictive anticompetitive conduct by,  
 22 among other things, including in the agreements themselves a provision restricting  
 23 signatories from making “any public statement regarding [the] Agreement without the  
 24 other party’s prior written approval”. Google then used the confidentiality it imposed  
 25 on OEMs to argue, in its Motion to Dismiss, that Android OEMs are *not* prohibited  
 26 from “pre-installing alternative app stores”, and that Epic failed to sufficiently allege the

---

27       28       <sup>9</sup> A “silent install” is an installation process free of the dire security warnings that Google triggers  
 when apps are directly downloaded, such as the “one touch” process on which Epic and OnePlus had  
 agreed.

1 exclusivity agreements it concealed. (Dkt. 91 at 9 (“OEMs retain the ability under the  
2 MADAs to pre-install . . . competing app stores”); *see also id.* at 8 (“Plaintiffs also  
3 challenge Google’s agreements with OEMs, which they claim ‘discourage’—but do not  
4 claim prohibit—OEMs from pre-installing alternative app stores”); *id.* at 15 (“Plaintiffs’  
5 allegations fall short of alleging actual foreclosure or exclusivity, and Plaintiffs do not  
6 allege the MADAs prohibit OEMs from pre-installing rival app stores” (emphasis in  
7 original)); *id.* at 17 (“Nor is there any allegation that MADAs prevent rival app stores  
8 from being pre-installed elsewhere on a device.”).) Google’s representations also  
9 obscured its efforts to ensure that Google Play would retain exclusivity on the default  
10 screen through other OEM agreements. (Dkt. 91 at 17 (“There is no allegation that  
11 MADAs prevent rival app stores from also being pre-installed on the home screen . .  
12 .”).) The revelations in Google’s recent document productions (which are thus far  
13 incomplete) make clear that the exceedingly carefully phrased arguments and  
14 representations Google made in connection with its Motion to Dismiss are inconsistent  
15 with Google’s own documents.

16       116. In the absence of this conduct, Epic could and would negotiate with  
17 OEMs to make *Fortnite* and other Epic apps directly available to consumers, free from  
18 Google’s anti-competitive restraints. OEMs could then compete for the sale of mobile  
19 devices based in part on the set of apps offered on the OEMs’ devices. But Google  
20 substantially forecloses alternative ways of distributing Android apps other than through  
21 its own monopolized app store, harming competition among OEMs and among app  
22 developers, to the detriment of consumers.

23       117. Google has also historically leveraged revenue share agreements to  
24 discourage mobile network operators (“MNOs”) from creating competing app stores.  
25 Many consumers contract with an MNO to enable their devices to communicate and  
26 access the Internet over cellular networks. Prominent MNOs in the United States  
27 include AT&T Mobility, T-Mobile, and Verizon Wireless. In 2009, shortly after the  
28 launch of Android and Google Play’s predecessor, Android Market, Google began

1 discussing using revenue share agreements to address the “challenge” of MNOs and  
2 OEMs looking to create their own app stores. Google’s goal was to “[i]ncentivize  
3 partners[s] to drive developer and user communities towards Android market”.

4           118. Google increased the market share of Android Market by adopting  
5 revenue share agreements that split the revenue from app purchases with certain MNOs.  
6 Google knew at the time that “Mobile operators are not willing to give up the revenue  
7 stream on content distribution . . . Will block Market if we don’t share revenue”.  
8 Beginning in 2009, Google entered into revenue share agreements with various MNOs  
9 that split Android Market revenue between app developers, MNOs, and Google. Under  
10 these arrangements, app developers typically received 70% of a given purchase, while  
11 MNOs received 20-25% and Google received the remaining 5-10% for its operating and  
12 transaction costs. Google understood that this 20-25% revenue share for MNOs  
13 “[p]rovide[d] incentive for operators to distribute Android market” by “offset[ting the]  
14 opportunity cost” of giving up their own app distribution channels.

15           119. In its Motion to Dismiss, Google has argued that the existence of  
16 Samsung’s Galaxy Store—which exists only on devices that Samsung sells—is  
17 somehow “fatal to Plaintiffs’ claim of actual foreclosure”. But documents discussing  
18 Google’s “Project Banyan” demonstrate how Google attempted to negotiate a deal with  
19 Samsung that would prevent the Galaxy Store from becoming a competitive threat and  
20 impose Google’s anti-competitive Google Play Billing tie on apps distributed by  
21 Samsung. In April 2019, Google executives traveled to Korea to meet with Samsung to  
22 discuss an “app distribution” proposal. Internal documents presented to Google’s  
23 Business Council reveal the details of this proposal. *First*, Google sought Samsung’s  
24 agreement that Google Play would host the apps and games distributed by the Galaxy  
25 Store and that Google Play would provide “infrastructure support to Galaxy Store  
26 (including Play Billing)”, ensuring that Google’s in-app payment solution would be  
27 used in apps distributed through the Galaxy Store. Because Samsung would thus “forgo  
28 store services revenue”, Google planned to make annual payments to Samsung of “up to

1 \$60M, which was Google’s top-end estimate of the “current . . . operating profit of [the]  
2 Galaxy Store” but a small fraction of the “likely 2022 margin risk to Play”. *Second*, the  
3 Business Council documents indicate that Google sought Samsung’s agreement that  
4 “Play and Galaxy Store” would be the “only app stores on Default Home Screen”,  
5 ensuring that Samsung could not provide convenient placement to any other competing  
6 app store. Google recognized that such a deal, in conjunction with a developer-focused  
7 plan described below called “Project Hug”, would “mitigate[] risk that top game  
8 developers de-prioritize Google Play for title distribution” and secure the “Play revenue  
9 / margin at risk”, which was “up to \$6B / \$1.1B in 2022” alone. In an email exchange  
10 following Google’s visit to Samsung’s headquarters in Korea, Samsung indicated that it  
11 was “willing to accept [Google’s] proposal to distribute Android apps through [the  
12 Google] Play store, with Samsung maintaining a front end of Galaxy store”, but asked  
13 that Google allow users to choose between Samsung IAP and Google Play Billing. In  
14 internal emails that followed, Google Play and Android executives noted their  
15 opposition to the idea of allowing Galaxy users even the option to use Samsung IAP,  
16 and one executive relayed ideas from the head of Android that in response to Samsung’s  
17 request, Google could “[r]equest a revshare on [Samsung’s] hardware margin (I’m  
18 serious) in exchange for their own IAP”, charge Samsung “a license fee for Play in  
19 exchange for their own IAP”, or “[o]ffer revshare or bounty for IAP on Play if they  
20 don’t have their own IAP platform”.

21       120. Project Banyan was not Google’s first attempt to buy out Samsung’s  
22 app store. Google emails show that in 2011, senior Android executives were “having  
23 discussions with Samsung to get them to stop distributing apps through Samsung App  
24 store”. Other documents reveal that in late 2013, Google again met with Samsung to  
25 discuss the possibility that “Samsung Apps should no longer compete directly with  
26 Google Play”, that it would “only have 200 apps” that would appear “for limited time”  
27 and be “boutique and complimentary [sic] to Google Play”, and that “Samsung Apps  
28 could link to Google Play for many purchases if the right infrastructure is in place”. As

1 one Google employee explained, “Samsung’s duplication of our services on Android is  
2 one of the critical issues with the partnership right now. Samsung Apps relative to  
3 Google Play is one of the most glaring.”

4           121. Google ultimately chose not to pursue Project Banyan as authorized  
5 by the Business Council. However, the Complaint filed by 36 States and the District of  
6 Columbia in *State of Utah, et al. v. Google LLC, et al.*, alleges that Google then sought  
7 “a different implementation toward the same anticompetitive goal” as part of a new  
8 effort, “Project Agave”. Epic does not have the details of any deal Google reached  
9 with Samsung as part of Project Agave because Google has not yet produced many  
10 underlying documents to Epic, and Google has maintained redactions over the States’  
11 relevant allegations when Google produced the States’ Complaint to Epic. But  
12 documents that Google has produced to Epic reveal that Google sought an “[i]ndividual  
13 surgical deal[]” with Samsung, in which Google would secure, among other things,  
14 “play protections” and in exchange give Samsung a “rev share on browsers and  
15 assistant”, a percentage “of Play rev share on IAP powered by Google”, and “Billing  
16 integrations for App Gallery”.

17           ii. Google’s Conduct Toward App Distributors and Developers

18           122. Google imposes anti-competitive restrictions on competing app  
19 distributors and developers that further entrench its monopoly in Android App  
20 Distribution.

21           123. *First*, Google prevents app distributors from providing Android users  
22 ready access to competing app stores. Specifically, even though competitive app stores  
23 themselves are mobile apps that could easily be distributed through the Google Play  
24 Store, Google prohibits the distribution of any competing app store through the Google  
25 Play Store, without any technological or other justification.

26           124. Google imposes this restraint through provisions of the Google Play  
27 Developer Distribution Agreement (“DDA”), which Google requires all app developers  
28

1 to sign before they can distribute their apps through the Google Play Store. Each of the  
2 Defendants, except Google Payment, is a party to the DDA.

3           125. Section 4.5 of the DDA provides that developers “may not use  
4 Google Play to distribute or make available any Product that has a purpose that  
5 facilitates the distribution of software applications and games for use on Android  
6 devices outside of Google Play.” The DDA further reserves to Google the right to  
7 remove and disable any Android app that it determines violates this requirement. The  
8 DDA is non-negotiable, and developers that seek access to Android users through the  
9 Google Play Store must accept Google’s standardized contract of adhesion.

10          126. In the absence of these unlawful restraints, competing app  
11 distributors could allow users to replace or supplement the Google Play Store on their  
12 devices with competing app stores, which users could easily download and install  
13 through the Google Play Store. App stores could compete and benefit consumers by  
14 offering lower prices and innovative app store models, such as app stores that are  
15 curated to specific consumers’ interests—*e.g.*, an app store that specializes in games or  
16 an app store that only offers apps that increase productivity. Without Google’s unlawful  
17 restraints, additional app stores would provide additional platforms on which more apps  
18 could be featured, and thereby, discovered by consumers. Epic has been damaged  
19 through its inability to provide a competing app store (as it does on personal computers)  
20 and by the loss of the opportunity to reach more Android users directly in the ways that  
21 personal computers allow developers to reach consumers without artificial constraints.

22          127. *Second*, Google conditions app developers’ ability to effectively  
23 advertise their apps to Android users on being listed in the Google Play Store.  
24 Specifically, Google markets an App Campaigns program that, as Google says, allows  
25 app developers to “get your app into the hands of more paying users” by “streamlin[ing]  
26 the process for you, making it easy to promote your apps across Google’s largest  
27 properties”. This includes certain ad placements on Google Search, YouTube, Discover  
28 on Google Search, and the Google Display Network, as well as with Google’s “search

1 partners”, that are specially optimized for the advertising of mobile apps. However, in  
2 order to access this valuable advertising space through the App Campaigns program,  
3 Google requires that app developers list their app in either the Google Play Store (to  
4 reach Android users) or in the Apple App Store (to reach Apple iOS users). This  
5 conduct further entrenches Google’s monopoly in Android App Distribution by  
6 coercing Android app developers to list their apps in the Google Play Store or risk  
7 losing access to a great many Android users they could otherwise advertise to but for  
8 Google’s restrictions.

9           128. *Third*, “responding to Epic’s decision to launch Fortnite completely  
10 off of Play and build their own store, and the likeliness of others to follow suit or  
11 consider launching off Play on other stores (notably Samsung)”, Google launched an  
12 initiative called “Project Hug”, now referred to as the Games Velocity Program. As  
13 explained by Android executives in internal documents, Project Hug, which was created  
14 and developed alongside Project Banyan, was “a hug developers close and show love  
15 plan”, or “a surge plan to throw extra love/promotion to top developers and games  
16 (including Tencent portfolio companies)”. As Google Play and Android executives  
17 explained to the Business Council in April 2019, in the same presentation that secured  
18 the approval of Project Banyan, Google’s plan was to spend hundreds of millions of  
19 dollars on secret deals with over 20 top developers that were “most at risk . . . of  
20 attrition from Play”, in order to prevent these developers from competing with Google  
21 Play and inspiring the widespread “contagion” effect that Google feared. Google’s  
22 documents reveal that a majority of the Project Hug developers were “[a]gitated or  
23 inquired about revenue share”, and several had “[c]onsidered [their] own distribution  
24 and/or payments platforms”. Other Project Hug presentations prepared for senior  
25 executives note that “Fortnite would have been substantially more successful had they  
26 launched on Play”, but “other developers might follow Epic’s path for various reasons”.  
27 The Business Council approved Project Hug as part of a package with Project Banyan  
28

1 and, by December 2020, Google had signed deals with the vast majority of the  
2 developers it targeted.

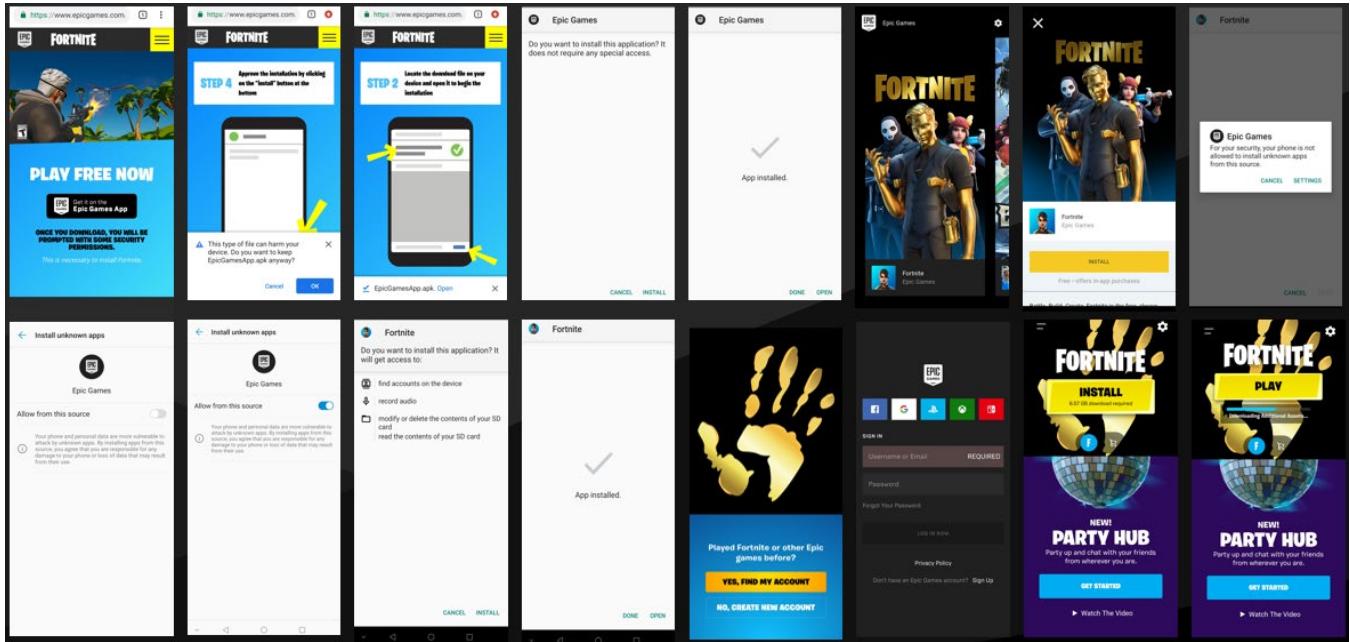
3                   iii. Google's Conduct Toward Consumers

4                 129. Google directly and anti-competitively restricts the manner in which  
5 consumers can discover, download and install mobile apps and app stores. Although  
6 Google nominally allows consumers to directly download and install Android apps and  
7 app stores—a process that Google pejoratively describes as “sideloading”—Google has  
8 ensured, through a series of technological impediments imposed by the Android OS,  
9 that direct downloading remains untenable for most consumers.

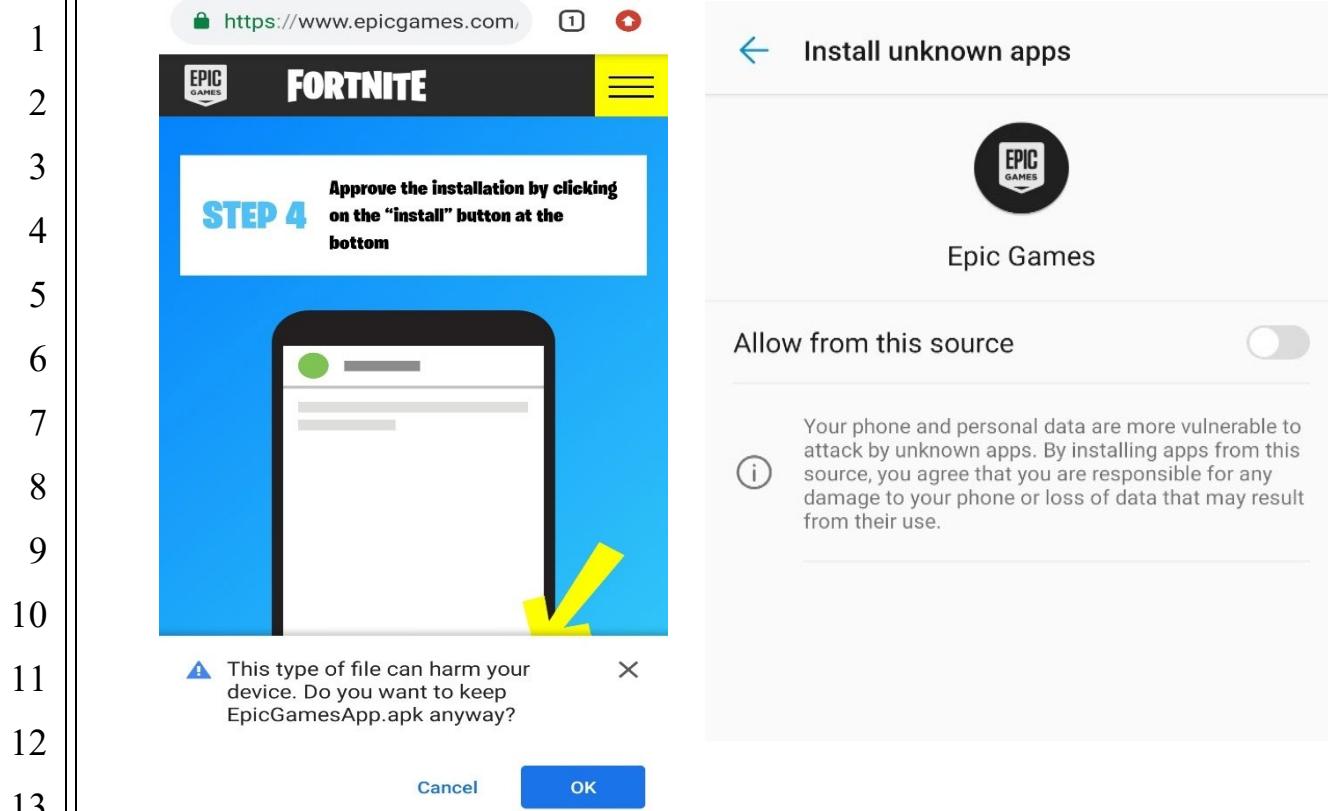
10                130. But for Google’s anticompetitive acts, Android users could freely  
11 download apps from developers’ websites, rather than through an app store, just as they  
12 might do on a personal computer. There is no reason that downloading and installing an  
13 app on a mobile device should differ from downloading and installing software on a  
14 personal computer. Millions of personal computer users download and install software  
15 directly every day, such as Google’s own Chrome browser or Adobe’s Acrobat Reader.  
16 Personal computer users do this easily and safely.

17                131. Direct downloading on Android mobile devices, however, differs  
18 dramatically. Google ensures that the Android process is technically complex,  
19 confusing and threatening, filled with dire warnings that scare most consumers into  
20 abandoning the lengthy process. Google understands this, and staff members have  
21 acknowledged internally that the difficulty Google imposes on consumers who wish to  
22 direct download leads to a “[p]oor user experience,” in that there are “15+ steps to get  
23 app [via sideloading] vs 2 steps with Play or on iOS”. For example, depending on the  
24 version of Android running on a mobile device, downloading and installing *Fortnite* or  
25 any other Epic app on an Android device could take as many as 16 steps or more,  
26 including requiring the user to make changes to the device’s default settings and  
27 manually granting various permissions while being warned that doing so is dangerous.

1 Below are the myriad steps an average Android user has to go through in order to  
 2 download and install *Fortnite* directly from Epic's secure servers.



132. Below are two of the intimidating messages and warnings about the  
 14 supposed danger of directly downloading and installing apps that consumers encounter  
 15 during this process.



143. As if this slog through warnings and threats were not enough to  
 14 ensure the inferiority of direct downloading as a distribution method for Android apps,  
 15 Google denies downloaded apps the permissions necessary to be seamlessly updated in  
 16 the background—instead, Google allows such updates only for apps downloaded via  
 17 Google Play Store. The result is that consumers in most instances must manually  
 18 approve every update of a “sideloaded” app. In addition, depending on the OS version  
 19 and selected settings, such updates may require users to go through many of the steps in  
 20 the downloading process repeatedly, again triggering many of the same warnings. This  
 21 imposes onerous obstacles on consumers who wish to keep the most current version of  
 22 an app on their mobile device and further drives consumers away from direct  
 23 downloading and toward Google’s monopolized app store.

24  
 25 134. Google further restricts direct downloading under the guise of  
 26 offering protection from malware. When Google deems an app “harmful”, Google may  
 27 prevent the installation of, prompt a consumer to uninstall, or forcibly remove the app  
 28 from a consumer’s device. And direct downloading has been prevented entirely on the

1 Android devices that are part of Google’s so-called Advanced Protection Program  
 2 (“APP”). Consumers who have enrolled in APP are unable to directly download apps;  
 3 their Android device can only download apps distributed in the Google Play Store or in  
 4 the rare instance of another pre-installed app store that Google has pre-approved for an  
 5 OEM to offer on its devices. App developers therefore cannot reach APP users unless  
 6 they first agree to distribute their apps through the Google Play Store or through a  
 7 separate Google-approved, OEM-offered app store, where available. Google’s  
 8 invocation of security is an excuse to further strangle an app developer’s ability to reach  
 9 Android users, as shown by a comparison to personal computers, where users can  
 10 securely purchase and download new software without being limited to a single  
 11 software store owned or approved by the user’s anti-virus software vendor.

12       135. Direct downloading is also nominally available to competing app  
 13 distributors who seek to distribute competing Android app stores directly to consumers.  
 14 However, the same restrictions Google imposes on the direct downloading of apps apply  
 15 to the direct downloading of app stores. Indeed, Google Play Protect has flagged at  
 16 least one competing Android app store, Aptoide, as “harmful”, further hindering  
 17 consumers’ ability to access a competing app store.

18       136. Google prohibits apps downloaded from “sideloaded” app stores,  
 19 like apps directly downloaded from a developer’s website, from being automatically  
 20 updated in the background.<sup>10</sup> Thus, direct downloading is not a viable way for app  
 21 stores to reach Android users, any more than it is a viable alternative for single apps; the  
 22 only difference is that the former do not have *any* alternative, ensuring the latter are  
 23 forced into the Google Play Store.

24       137. Google understands that the myriad barriers it erects to direct  
 25 downloading have the effect of protecting its app distribution monopoly and limiting

---

27       28       <sup>10</sup> In the latest announced, but as of yet unreleased, version of Android (which was announced after  
 this lawsuit was filed), Google vaguely promised to “make third-party app stores easier to use on  
 Android 12”; however, the details of any improvements remain unclear. Sameer Samat, *Android 12  
 Beta: Designed for you*, May 18, 2021, <https://blog.google/products/android/android-12-beta/>.

1 developers' ability to distribute their apps. In an internal document titled "Response to  
2 Epic", a Google employee explained that the "install friction" associated with direct  
3 downloading was "not only a bad experience" for users but that Google knew "from its  
4 data that it will drastically limit [Epic's] reach". The document goes on to explain that  
5 "[f]uture [Fortnite] updates will be challenged re: targeting, update experience via  
6 web"; that the direct downloading approach was "most associated with malicious apps",  
7 which would be "incompatible with [Epic's] brand/demographics"; and that "[t]he  
8 approach will create significant user confusion, since [Google Play] will still attract  
9 [billions] of users who will search for Fortnite and run into deadends that aren't clear  
10 how to resolve".

11           138. But for Google's restrictions on direct downloading, Epic and other  
12 app distributors and developers could directly distribute their stores and apps to those  
13 consumers who would be open to a process outside an established app store. But as  
14 explained above, Google makes direct downloading substantially and unnecessarily  
15 difficult, and in some cases prevents it entirely, further narrowing this already narrow  
16 alternative distribution channel.

17           139. There is no legitimate reason for Google's conduct. Indeed, for  
18 decades the users of personal computers have been able to install software acquired  
19 from various sources without being deterred by anything like the obstacles erected by  
20 Google. For many years, a user has been able to navigate to the Internet webpage  
21 sponsored by the developer of software he/she desires, click once or twice to download  
22 and install an application, and be up and running, often in a matter of minutes. The  
23 operating systems used by personal computers efficiently facilitate this download and  
24 installation (unlike Android), and security screening is conducted by a neutral security  
25 software operating in the background, allowing users to download software from any  
26 source they choose (unlike Android).

27           140. Google's anti-competitive and unjustified restrictions on distributing  
28 apps through any means other than its own app store contradict its own claims that

1 Android app developers can “us[e] any distribution approach or combination of  
 2 approaches that meets your needs”, and that developers can even provide consumers  
 3 “apps from a website or [by] emailing them directly to users.”<sup>11</sup> In reality, Google  
 4 specifically prevents app developers from effectively availing themselves of alternative  
 5 distribution channels that Google touts as available.

6       141. Through these anti-competitive acts, including contractual provisions  
 7 and exclusionary obstacles, Google has willfully obtained a near-absolute monopoly  
 8 over Android mobile app distribution. Google Play Store downloads have accounted for  
 9 more than 90% of downloads through Android app stores, dwarfing other available  
 10 distribution channels.

#### 11           **D. Anti-Competitive Effects in the Android App Distribution Market**

12       142. Google’s anti-competitive conduct has substantially foreclosed  
 13 competition in the Android App Distribution Market, affecting a substantial volume of  
 14 commerce in this Market and causing anti-competitive harms to OEMs, competing  
 15 mobile app distributors, mobile app developers, and consumers.

16       143. Google’s conduct harms OEMs by forcing them to dedicate to the  
 17 Google Play Store and other mandatory Google applications valuable space on their  
 18 devices’ “home screen”, even if they would rather use that real estate for other purposes,  
 19 including to offer alternative app stores. Individually and together, these requirements  
 20 limit OEMs’ ability to innovate and compete with each other by offering innovative and  
 21 more appealing (in terms of price and quality) distribution platforms for mobile apps.  
 22 Google’s restrictions also interfere with OEMs’ ability to compete with each other by  
 23 offering Android devices with tailored combinations of pre-installed apps that would  
 24 appeal to particular subsets of mobile device consumers.

---

25  
 26  
 27       <sup>11</sup> Google Play Developers Page, *Alternative Distribution Options*,  
 28 <https://developer.android.com/distribute/marketing-tools/alternative-distribution> (last accessed July 20,  
 2021).

1           144. Google's conduct harms would-be competitor app distributors, such  
2 as Epic, which could otherwise innovate new models of app distribution and provide  
3 OEMs, app developers, and consumers choice beyond Google's own app store.

4           145. Google's anti-competitive conduct harms app developers, such as  
5 Epic, which are forced to agree to Google's anti-competitive terms and conditions if  
6 they wish to reach many Android users, such as through advertising on Google's  
7 valuable advertising properties. Google's restrictions prevent developers from  
8 experimenting with alternative app distribution models, such as providing apps directly  
9 to consumers, selling apps through curated app stores, creating their own competing app  
10 stores, or forming business relationships with OEMs who can pre-install apps. By  
11 restricting developers in such a way, Google ensures that the developer's apps will be  
12 distributed on the Google Play Store, and that Google is then able to monitor and collect  
13 a variety of information on the apps' usage, which it can then use to develop and offer  
14 its own competing apps that are, of course, not subject to Google's supra-competitive  
15 taxes.

16           146. Both developers and consumers are harmed by Google's supra-  
17 competitive taxes of 30% on the purchase price of apps distributed through the Google  
18 Play Store, which is a much higher transaction fee than would exist in a competitive  
19 market. Google's supra-competitive taxes raise prices for app developers and  
20 consumers and reduce the output of mobile apps and related content by depriving app  
21 developers incentive and capital to develop new apps and content.

22           147. Consumers are further harmed because Google's control of app  
23 distribution reduces developers' ability and incentive to distribute apps to consumers in  
24 different and innovative ways—for example, through genre-specific app stores. By  
25 restraining the distribution market and eliminating the ability and incentive for  
26 competing app stores, Google also limits consumers' ability to discover new apps of  
27 interest to them. More competing app stores would permit additional platforms to  
28 feature diverse collections of apps. Instead, consumers are left to sift through millions

1 of apps in one monopolized app store, where Google controls which apps are featured  
 2 and identified or prioritized in user searches.

### 3 **III. Google Unlawfully Acquired and Maintains a Monopoly in the Android In- 4 App Payment Processing Market.**

5 148. By selling digital content within a mobile app rather than (or in  
 6 addition to) charging a price for the app itself, app developers can make an app widely  
 7 accessible to all users, then charge users for additional digital content or features, thus  
 8 still generating revenue from their investment in developing new apps and content. This  
 9 is especially true for mobile game developers. By allowing users to play without up-  
 10 front costs, developers permit more players to try a game “risk free” and only pay for  
 11 what they want to access. *Fortnite*, for example, is free to download and play, but  
 12 makes additional content available for in-app purchasing on an à la carte basis or via a  
 13 subscription-based Battle Pass. App developers who sell digital content rely on in-app  
 14 payment processing solutions to process consumers’ purchases in a seamless and  
 efficient manner.

15 149. When selling digital content, Android app developers are unable to  
 16 utilize the multitude of electronic payment processing solutions generally available on  
 17 the market to process other types of transactions. Instead, through contractual  
 18 restrictions and its monopoly in app distribution, Google coerces developers into using  
 19 its own in-app payment processing solution by conditioning developers’ use of Google’s  
 20 dominant Google Play Store on the use of Google’s payment processor for digital  
 21 content, thereby acquiring and maintaining monopoly power in the Android In-App  
 22 Payment Processing Market. Google thus ties its Google Play Store to its own  
 23 proprietary payment processing solution, Google Play Billing, substantially foreclosing  
 24 competition.

#### 25 **A. The Android In-App Payment Processing Market**

##### 26 i. Product Market Definition

27 150. There is a relevant antitrust market for payment processing solutions  
 28 for the purchase of digital content, including virtual gaming products, that is consumed

1 within Android apps (the “Android In-App Payment Processing Market”). The Android  
2 In-App Payment Processing Market includes the payment processing solutions that  
3 Android developers could integrate into their Android apps to process the purchase of  
4 such in-app digital content.

5       151. Absent Google’s unlawful conduct, app developers could integrate a  
6 compatible payment processor into their apps to facilitate the purchase of in-app digital  
7 content. Developers also would have the capability to develop their own in-app  
8 payment processing functionality. And developers could offer users a choice among  
9 multiple payment processors, just like a website or brick-and-mortar store can offer a  
10 customer the option of using Visa, MasterCard, Amex, Google Pay, and more.

11       152. Google offers separate payment solutions for the purchase of digital  
12 content and for other types of purchases even within mobile apps. Google Play Billing  
13 can be used for the purchase of digital content and virtual gaming products, while  
14 Google offers a separate tool, Google Pay, to facilitate the purchase of physical products  
15 and services within apps.

16       153. It is particularly important that app developers who sell in-app digital  
17 content be able to offer in-app transactions that are seamless, engrossing, quick, and fun.  
18 For example, a gamer who encounters a desirable “skin” within *Fortnite*, such as a  
19 Marvel superhero, may purchase it nearly instantly for a small price without leaving the  
20 app. Although *Fortnite* does not offer content that extends gameplay or gives players  
21 competitive advantages, other game developers offer such products—for example,  
22 “boosts” and “extra lives”—that extend and enhance gameplay. It is critical that such  
23 purchases can be made during gameplay itself, rather than in another manner. If a  
24 player were required to purchase game-extending extra lives outside of the app, the  
25 player may simply stop playing.

26       154. As another example, if a user of a mobile dating app encounters a  
27 particularly desirable potential dating partner, he/she can do more than “swipe right” or  
28 “like” that person, but can also purchase a digital item that increases the likelihood that

1 the potential partner will notice his/her profile. If the user could not make that purchase  
2 quickly and seamlessly, he/she would likely abandon the purchase and may even stop  
3 “swiping” in the app altogether.

4           155. It is therefore essential that developers who offer digital content be  
5 able to seamlessly integrate a payment processing solution into the app, rather than  
6 requiring a consumer to go elsewhere, such as to a separate website, to process a  
7 transaction. Indeed, if an app user were directed to process a purchase of digital content  
8 outside of a mobile app, the user might abandon the purchase or stop interacting with  
9 the mobile app altogether.

10           156. Mobile game developers particularly value the ability to allow users  
11 to make purchases that extend or enhance gameplay without disrupting or delaying that  
12 gameplay or a gamer’s engagement with the mobile app. For these reasons, and in the  
13 alternative, there is a relevant antitrust sub-market for payment processing solutions for  
14 the purchase of virtual gaming products within mobile Android games (the “Android  
15 Games Payment Processing Market”).

16           ii. Geographic Market Definition

17           157. The geographic scope of the Android In-App Payment Processing  
18 Market is worldwide, excluding China. Outside China, in-app payment processing  
19 solutions, such as Google Play Billing, are available on a worldwide basis. By contrast,  
20 in-app payment processing solutions available in China are not available outside of  
21 China, including because Google prevents the use of non-Google payment processing  
22 solutions for all apps distributed through the Google Play Store, which as noted above  
23 dominates distribution of apps outside of China.

24           **B. Google’s Monopoly Power in the Android In-App Payment Processing  
25 Market**

26           158. Google has monopoly power in the Android In-App Payment  
27 Processing Market and, in the alternative, in the Android Games Payment Processing  
Market.

1           159. For apps distributed through the Google Play Store, Google requires  
 2 that the apps use *only* its own in-app payment processor, Google Play Billing, to process  
 3 in-app purchases of digital content and for all purchases within Android games. And  
 4 because 90% or more of Android-compatible mobile app downloads conducted through  
 5 an app store have been done through the Google Play Store, Google has a monopoly in  
 6 these Markets.

7           160. For the vast majority of transactions, Google charges a 30%  
 8 commission for Google Play Billing.<sup>12</sup> This rate reflects Google's market power, which  
 9 allows it to charge supra-competitive prices for payment processing within the market.  
 10 Indeed, the cost of alternative electronic payment processing solutions, which Google  
 11 does not permit to be used for the purchase of in-app digital content or within Android  
 12 games, can be ***one tenth*** of the 30% cost of Google Play Billing.

<u>Electronic Payment Processing Solution</u>	<u>Base U.S. Rate<sup>13</sup></u>
PayPal	2.9%
Stripe	2.9%
Square	2.6%-3.5%
Braintree	2.9%

19

20           C. **Google's Anti-Competitive Conduct Concerning the Android In-App**  
 21 **Payment Processing Market**

22           161. Through provisions of the DDA that Google imposes on all  
 23 developers who seek to access Android users, Google unlawfully ties its Google Play  
 24 Store, through which it has a monopoly in the Android App Distribution Market, to its  
 25 own in-app payment processing solution, Google Play Billing. Section 3.2 of the DDA

26           <sup>12</sup> Seven months after this lawsuit was filed, Google instituted a new policy reducing the Play Store  
 27 commission to 15% for a developer's first \$1 million in annual revenue. Sameer Samat, *Boosting*  
*Developer Success on Google Play, Android Developers Blog* (Mar. 16, 2021), <https://android-developers.googleblog.com/2021/03/boosting-dev-success.html>.

28           <sup>13</sup> The base U.S. rates in these examples include an additional fixed fee per transaction of \$0.30 or  
 less in addition to the listed percentage.

1 requires that Android app developers enter into a separate agreement with Google's  
2 payment processor, Defendant Google Payment, in order to receive payment for apps  
3 and in-app digital content.

4       162. Further, Google's Developer Program Policies, compliance with  
5 which Section 4.1 of the DDA makes obligatory, require in relevant part that:

- 6           • Developers offering "Play-distributed apps must use [Google Play  
7            Billing] as the method of payment if they require or accept payment  
8            for access to features or services, including any app functionality,  
9            digital content or goods".
- 10          • Developers offering products within any category of app  
11            downloaded on Google Play must use Google Play Billing as the  
12            method of payment, except for the following cases:
  - 13              ○ Payment is primarily for physical products or services,
  - 14              ○ Payment is for digital content that may be consumed outside  
15                of the app itself (*e.g.*, songs that can be played on other music  
16                players).

17       163. Google's unlawful restraints in the DDA prevent app developers  
18 from integrating alternative, even multiple, payment processing solutions into their  
19 mobile apps, depriving app developers and consumers alike a choice of competing  
20 payment processors. For example, Epic offers its own in-app payment processing  
21 solution that it could integrate, alongside Google's and others, into Epic mobile apps.  
22 Epic consumers could then choose to process their payment using Google's solution,  
23 Epic's solution, or another solution altogether. These restraints result in a substantial  
24 foreclosure of competition.

25       164. In December of 2019, Epic submitted a build of *Fortnite* to Google  
26 Play that enabled users to make in-app purchases through Epic's own payment  
27 processor. Upon review of the submission, Google Play rejected the application, citing  
28 its violation of Google's Payments policy as well as an unrelated issue raised by

1 Google. In January 2020, Epic again submitted a *Fortnite* build that resolved the  
 2 unrelated issue but still enabled users to use Epic's own payment processor. Google  
 3 again rejected Epic's submission.

4       165. Epic was prevented from offering *Fortnite* on the Google Play Store,  
 5 and therefore unable to reach many Android users, until it submitted a new version of  
 6 *Fortnite* that only offered Google Play Billing. Google has damaged Epic by  
 7 foreclosing it from the Android in-app payment processing market.

8       166. Google has no legitimate justifications for its tie. If it were  
 9 concerned, for example, about the security of its users' payment information, then it  
 10 would not permit alternative payment processing for certain transactions made on  
 11 Android phones for physical products or digital content consumed outside an app. But  
 12 Google does allow alternative payment processing solutions in that context, with no  
 13 diminution in security.

14       **D. Anti-Competitive Effects in the Android In-App Payment Processing  
 15 Market**

16       167. Google's conduct harms competition in the Android In-App  
 17 Payment Processing Market (and, in the alternative, in the Android Games Payment  
 18 Processing Market) and injures app developers, consumers, and competing in-app  
 19 payment processors. Google's conduct substantially forecloses competition.

20       168. Google's conduct harms would-be competitor in-app payment  
 21 processors, who would otherwise have the ability to innovate and offer consumers  
 22 alternative payment processing solutions that offer better functionality, lower prices,  
 23 and better security. For example, in the absence of Google's Developer Program  
 24 Policies, Epic could offer consumers a choice of in-app payment processor for each  
 25 purchase made by the consumer, including a choice of Epic's own payment processor at  
 26 a lower cost and with better customer service.

27       169. Google also harms app developers and consumers by inserting itself  
 28 as a mandatory middleman in every in-app transaction. When Google acts as payment  
 processor, Epic is unable to provide users comprehensive customer service relating to

in-app payments. Google has little incentive to compete through improved customer service because Google faces no competition and consumers often blame Epic for payment-related problems. In addition, Google is able to obtain information concerning Epic's transactions with its own customers, which Google could use to give its ads and Search businesses an anti-competitive edge, even when Epic and its own customers would prefer not to share their information with Google. In these ways and in others, Google directly harms app developers' relationships with the users of their apps.

170. Finally, Google raises app developers' costs and consumer prices through its supra-competitive 30% tax on in-app purchases, a price it could not maintain if it had not foreclosed competition for such transactions. The resulting increase in prices for in-app content likely deters some consumers from making purchases and deprives app developers of resources they could use to develop new apps and content. The supra-competitive tax rate also reduces developers' incentive to invest in and create additional apps and related in-app content.

**COUNT 1: Sherman Act § 2**  
**(Unlawful Monopoly Maintenance in the**  
**Android App Distribution Market)**  
**(against all Defendants except Google Payment)**

171. Epic restates, re-alleges, and incorporates by reference each of the allegations set forth in the rest of this Complaint as if fully set forth herein.

172. Google's conduct violates Section 2 of the Sherman Act, which prohibits the "monopoliz[ation of] any part of the trade or commerce among the several States, or with foreign nations". 15 U.S.C. § 2.

173. The Android App Distribution Market is a valid antitrust market.

174. Google holds monopoly power in the Android App Distribution Market.

175. Google has unlawfully maintained monopoly power in the Android App Distribution Market through the anti-competitive acts described herein, including conditioning the licensing of the Google Play Store, as well as other essential Google

1 services and the Android trademark, on OEMs' agreement to provide the Google Play  
 2 Store with preferential treatment. Google has done this by incentivizing OEMs to enter  
 3 agreements that prevent alternative app stores from being installed on the default Home  
 4 Screen of Android devices and coercing OEMS into making the Google Play Store  
 5 exclusive on their devices, by restricting OEMs from offering frictionless downloading  
 6 of apps outside of Google Play through compatibility standards in the AFA and ACC,  
 7 by imposing technical restrictions and obstacles on both OEMs and developers which  
 8 prevent the distribution of Android apps through means other than the Google Play  
 9 Store, and by conditioning app developers' ability to effectively advertise their apps to  
 10 Android users on being listed in the Google Play Store.

11           176. Google's conduct affects a substantial volume of interstate as well as  
 12 foreign commerce.

13           177. Google's conduct has substantial anti-competitive effects, including  
 14 increased prices and costs, reduced innovation and quality of service, and lowered  
 15 output.

16           178. As a potential competing app distributor and as an app developer,  
 17 Epic has been harmed by Defendants' anti-competitive conduct in a manner that the  
 18 antitrust laws were intended to prevent. Epic has suffered and continues to suffer  
 19 damages and irreparable injury, and such damages and injury will not abate until an  
 20 injunction ending Google's anti-competitive conduct issues.

21           **COUNT 2: Sherman Act § 1**

22           **(Unreasonable restraints of trade concerning**  
 23           **Android App Distribution Market: OEMs)**  
 24           **(against all Defendants except Google Payment)**

25           179. Epic restates, re-alleges and incorporates by reference each of the  
 26 allegations set forth in the rest of this Complaint as if fully set forth herein.

27           180. Defendants' conduct violates Section 1 of the Sherman Act, which  
 28 prohibits "[e]very contract, combination in the form of trust or otherwise, or conspiracy,

1 in restraint of trade or commerce among the several States, or with foreign nations".  
2 15 U.S.C. § 1.

3           181. Google has entered into agreements with OEMs that unreasonably  
4 restrict competition in the Android App Distribution Market. These include MADAs  
5 with OEMs that condition their access to the Google Play Store and other "must have"  
6 Google services on the OEM offering the Google Play Store as the primary and often  
7 the only viable app store on Android mobile devices.

8           182. These agreements also include exclusivity agreements that prevent  
9 OEMs from pre-installing alternative app stores on a substantial portion of new Android  
10 devices, including devices that are sold in markets with the largest monetization  
11 opportunities. Google also has entered agreements that prevent alternative app stores  
12 from being installed on the default Home Screen of Android devices.

13           183. Through the AFA and ACC compatibility standards, Google restricts  
14 OEMs from offering frictionless downloading of apps outside of Google Play.

15           184. These agreements serve no legitimate or pro-competitive purpose  
16 that could justify their anti-competitive effects, and thus unreasonably restrain and  
17 substantially foreclose competition in the Android App Distribution Market.

18           185. Google's conduct affects a substantial volume of interstate as well as  
19 foreign commerce.

20           186. Google's conduct has substantial anti-competitive effects, including  
21 increased prices and costs, reduced innovation and quality of service, and lowered  
22 output.

23           187. As a potential competing app distributor and as an app developer that  
24 consumes app distribution services, Epic has been harmed by Defendants' anti-  
25 competitive conduct in a manner that the antitrust laws were intended to prevent. Epic  
26 has been foreclosed from the market and has suffered and continues to suffer damages  
27 and irreparable injury, and such damages and injury will not abate until an injunction  
28 ending Google's anti-competitive conduct issues.

1                   **COUNT 3: Sherman Act § 1**  
 2                   **(Unreasonable restraints of trade concerning**  
 3                   **Android App Distribution Market: Developer Distribution Agreement)**  
 4                   **(against all Defendants except Google Payment)**

5                   188. Epic restates, re-alleges, and incorporates by reference each of the  
 6 allegations set forth in the rest of this Complaint as if fully set forth herein.  
 7

8                   189. Defendants' conduct violates Section 1 of the Sherman Act, which  
 9 prohibits “[e]very contract, combination in the form of trust or otherwise, or conspiracy,  
 10 in restraint of trade or commerce among the several States, or with foreign nations”.  
 11 15 U.S.C. § 1.

12                   190. Google forces app developers to enter its standardized DDA,  
 13 including Developer Program Policies integrated into that Agreement, as a condition of  
 14 being distributed through Google's app store, the Google Play Store. The relevant  
 15 provisions of these agreements unreasonably restrain and substantially foreclose  
 16 competition in the Android App Distribution Market.

17                   191. Section 4.5 of the DDA provides that developers “may not use  
 18 Google Play to distribute or make available any Product that has a purpose that  
 19 facilitates the distribution of software applications and games for use on Android  
 20 devices outside of Google Play”. Section 4.1 of the DDA requires that all developers  
 21 “adhere” to Google's Developer Program Policies. Under the guise of its so-called  
 22 “Malicious Behavior” Policy, Google prohibits developers from distributing apps that  
 23 “download executable code [*i.e.*, code that would execute an app] from a source other  
 24 than Google Play”. The DDA further reserves to Google the right to remove and  
 25 disable any Android app that it determines violates either the DDA or its Developer  
 26 Program Policies and to terminate the DDA on these bases. (§§ 8.3, 10.3.) These  
 27 provisions prevent app developers from offering competing app stores through the  
 28 Google Play Store, even though there is no legitimate technological or other impediment  
 to distributing a competing app store through the Google Play Store.

1           192. These agreements serve no legitimate or pro-competitive purpose  
 2 that could justify their anti-competitive effects, and thus unreasonably restrain and  
 3 substantially foreclose competition in the Android App Distribution Market.

4           193. Google's conduct affects a substantial volume of interstate as well as  
 5 foreign commerce.

6           194. Google's conduct has substantial anti-competitive effects, including  
 7 increased prices and costs, reduced innovation and quality of service, and lowered  
 8 output.

9           195. As a potential competing app distributor and as an app developer that  
 10 consumes app distribution services, Epic has been harmed by Defendants' anti-  
 11 competitive conduct in a manner that the antitrust laws were intended to prevent. Epic  
 12 has been substantially foreclosed from the market and has suffered and continues to  
 13 suffer damages and irreparable injury, and such damages and injury will not abate until  
 14 an injunction ending Google's anti-competitive conduct issues.

15           **COUNT 4: Sherman Act § 2**  
 16           **(Unlawful Monopolization and Monopoly Maintenance in the**  
              **Android In-App Payment Processing Market)**  
              **(against all Defendants)**

17           196. Epic restates, re-alleges, and incorporates by reference each of the  
 18 allegations set forth in the rest of this Complaint as if fully set forth herein.

19           197. Google's conduct violates Section 2 of the Sherman Act, which  
 20 prohibits the "monopoliz[ation of] any part of the trade or commerce among the several  
 21 States, or with foreign nations". 15 U.S.C. § 2.

22           198. The Android In-App Payment Processing Market is a valid antitrust  
 23 market. In the alternative, the Android Games Payment Processing Market is a valid  
 24 antitrust market.

25           199. Google holds monopoly power in the Android In-App Payment  
 26 Processing Market and, in the alternative, in the Android Games Payment Processing  
 27 Market.

1           200. Google has unlawfully acquired monopoly power in these Markets,  
 2 including through the anti-competitive acts described herein. And however Google  
 3 initially acquired its monopoly, it has unlawfully maintained its monopoly, including  
 4 through the anti-competitive acts described herein.

5           201. Google's conduct affects a substantial volume of interstate as well as  
 6 foreign commerce.

7           202. Google's conduct has substantial anti-competitive effects, including  
 8 increased prices and costs, reduced innovation and quality of service, and lowered  
 9 output.

10          203. As an app developer and as the developer of a competing in-app  
 11 payment processing solution, Epic has been harmed by Defendants' anti-competitive  
 12 conduct in a manner that the antitrust laws were intended to prevent. Epic has suffered  
 13 and continues to suffer damages and irreparable injury, and such damages and injury  
 14 will not abate until an injunction ending Google's anti-competitive conduct issues.

15           **COUNT 5: Sherman Act § 1**

16           **(Unreasonable restraints of trade concerning**  
**Android In-App Payment Processing Market: Developer Distribution Agreement)**  
**(against all Defendants)**

17          204. Epic restates, re-alleges, and incorporates by reference each of the  
 18 allegations set forth in the rest of this Complaint as if fully set forth herein.

19          205. Defendants' conduct violates Section 1 of the Sherman Act, which  
 20 prohibits “[e]very contract, combination in the form of trust or otherwise, or conspiracy,  
 21 in restraint of trade or commerce among the several States, or with foreign nations”.  
 22

23         15 U.S.C. § 1.

24          206. Google, except Google Payment, forces app developers to enter its  
 25 standardized DDA, including Developer Program Policies integrated into that  
 26 Agreement, as a condition of having their apps distributed through Google's  
 27 monopolized app store, Google Play Store. The relevant provisions of these agreements

1 unreasonably restrain and substantially foreclose competition in the Android In-App  
2 Payment Processing Market.

3           207. Section 3.2 of the DDA requires that Android app developers enter  
4 into a separate agreement with Google's payment processor, Defendant Google  
5 Payment, in order to receive payment for apps and content distributed through the  
6 Google Play Store. This includes payments related to in-app purchases of digital  
7 content. Further, Google's Developer Program Policies, compliance with which Section  
8 4.1 of the DDA makes obligatory, require that apps distributed through the Google Play  
9 Store "must use [Google Play In-app Billing, offered by Google Payment] as the  
10 method of payment" for such in-app purchases. While Google's Policies exclude  
11 certain types of transactions from this requirement, such as the purchase of "primarily  
12 . . . physical" goods and services or of digital content that may be consumed outside of  
13 the app itself, Google expressly applies its anti-competitive mandate to all "Play-  
14 distributed apps . . . if they require or accept payment for access to features or services,  
15 including any app functionality, digital content or goods", which includes *Fortnite*.

16           208. The challenged provisions serve no sufficient legitimate or pro-  
17 competitive purpose and unreasonably restrain and substantially foreclose competition  
18 in the Android In-App Payment Processing Market and, in the alternative, the Android  
19 Games Payment Processing Market.

20           209. Defendants' conduct affects a substantial volume of interstate as well  
21 as foreign commerce.

22           210. Defendants' conduct has substantial anti-competitive effects,  
23 including increased prices and costs, reduced innovation and quality of service, and  
24 lowered output.

25           211. As an app developer and as the developer of a competing in-app  
26 payment processing solution, Epic has been harmed by Defendants' anti-competitive  
27 conduct in a manner that the antitrust laws were intended to prevent. Epic has been  
28 substantially foreclosed from the market and has suffered and continues to suffer

damages and irreparable injury, and such damages and injury will not abate until an injunction ending Google’s anti-competitive conduct issues.

**COUNT 6: Sherman Act § 1**  
**(Tying Google Play Store to Google Play Billing)**  
**(against all Defendants)**

212. Epic restates, re-alleges and incorporates by reference each of the allegations set forth in the rest of this Complaint as if fully set forth herein.

213. Defendants' conduct violates Section 1 of the Sherman Act, which prohibits “[e]very contract, combination in the form of trust or otherwise, or conspiracy, in restraint of trade or commerce among the several States, or with foreign nations.”

15 U.S.C. § 1.

214. Google has unlawfully tied its in-app payment processor, Google Play Billing, to the Google Play Store through its DDAs with app developers and its Developer Program Policies.

215. Google has sufficient economic power in the tying market, the Android App Distribution Market. With Google Play Store installed on nearly all Android OS devices and over 90% of downloads on Android OS devices being performed by the Google Play Store, Google has overwhelming market power. Google's market power is further evidenced by its ability to extract supra-competitive taxes on the sale of apps through the Google Play Store.

216. The availability of the Google Play Store for app distribution is conditioned on the app developer accepting a second product, Google's in-app payment processing solution. Google's foreclosure of alternative app distribution channels forces developers like Epic to use Google's in-app payment processing solution, which Google has expressly made a condition of reaching Android users through its dominant Google Play Store.

217. The tying product, Android app distribution, is distinct from the tied product, Android in-app payment processing, because app developers such as Epic have alternative in-app payment processing options and would prefer to choose among them

independently of how an Android app is distributed. Google's unlawful tying arrangement thus ties two separate products that are in separate markets.

218. Google's conduct substantially forecloses competition in the Android In-App Payment Processing Market, and, in the alternative, in the Android Games Payment Processing Market, affecting a substantial volume of commerce in these Markets.

219. Google has thus engaged in a *per se* illegal tying arrangement and the Court does not need to engage in a detailed assessment of the anti-competitive effects of Google's conduct or its purported justifications.

220. In the alternative only, even if Google’s conduct does not constitute a *per se* illegal tie, a detailed analysis of Google’s tying arrangement would demonstrate that this arrangement violates the rule of reason and is illegal.

221. As an app developer which uses in-app payment processing solutions and as the developer of a competing in-app payment processing solution, Epic has been harmed by Defendants' anti-competitive conduct in a manner that the antitrust laws were intended to prevent. Epic has suffered and continues to suffer damages and irreparable injury, and such damages and injury will not abate until an injunction ending Google's anti-competitive conduct issues.

**COUNT 7: California Cartwright Act**  
**(Unreasonable restraints of trade in Android App Distribution Market: OEMs)**  
**(against all Defendants except Google Payment)**

222. Epic restates, re-alleges and incorporates by reference each of the allegations set forth in the rest of this Complaint as if fully set forth herein.

223. Google's acts and practices detailed above violate the Cartwright Act, Cal. Bus. & Prof. Code § 16700 *et seq.*, which prohibits, *inter alia*, the combination of resources by two or more persons to restrain trade or commerce or to prevent market competition. See §§ 16720, 16726.

1           224. Under the Cartwright Act, a “combination” is formed when the anti-  
2 competitive conduct of a single firm coerces other market participants to involuntarily  
3 adhere to the anti-competitive scheme.

4           225. The Android App Distribution Market is a valid antitrust market.

5           226. Google has executed agreements with OEMs that unreasonably  
6 restrict competition in the Android App Distribution Market. Namely, Google has  
7 entered into MADAs with OEMs that require OEMs to offer the Google Play Store as  
8 the primary—and practically the only—app store on Android mobile devices. These  
9 agreements further prevent OEMs from offering alternative app stores on Android  
10 mobile devices in any prominent visual positioning.

11          227. These agreements also include exclusivity agreements that prevent  
12 OEMs from pre-installing alternative app stores on a substantial portion of new Android  
13 devices, including devices that are sold in markets with the largest monetization  
14 opportunities. Google has also entered agreements that prevent alternative app stores  
15 from being installed on the default Home Screen of Android devices.

16          228. Through the AFA and ACC compatibility standards, Google restricts  
17 OEMs from offering frictionless downloading of apps outside of Google Play.

18          229. Google’s conduct and practices have substantial anti-competitive  
19 effects, including increased prices and costs, reduced innovation, poorer quality of  
20 customer service and lowered output.

21          230. Google’s conduct harms Epic which, as a direct result of Google’s  
22 anti-competitive conduct, has been unreasonably restricted in its ability to distribute its  
23 Android applications, including *Fortnite*, and to market a competing app store to the  
24 Google Play Store.

25          231. It is appropriate to bring this action under the Cartwright Act  
26 because many of the illegal agreements were made in California and purport to be  
27 governed by California law, many affected consumers reside in California, Google has  
28

1 its principal place of business in California and overt acts in furtherance of Google's  
 2 anti-competitive scheme took place in California.

3           232. Epic has suffered and continues to suffer damages and irreparable  
 4 injury, and such damages and injury will not abate until an injunction ending Google's  
 5 anti-competitive conduct issues.

6           **COUNT 8: California Cartwright Act**  
 7           **(Unreasonable restraints of trade in Android App Distribution Market: Developer**  
              **Distribution Agreement)**  
 8           **(against all Defendants except Google Payment)**

9           233. Epic restates, re-alleges and incorporates by reference each of the  
 10 allegations set forth in the rest of this Complaint as if fully set forth herein.

11           234. Google's acts and practices detailed above violate the Cartwright  
 12 Act, Cal. Bus. & Prof. Code § 16700 *et seq.*, which prohibits, *inter alia*, the  
 13 combination of resources by two or more persons to restrain trade or commerce or to  
 14 prevent market competition. *See* §§ 16720, 16726.

15           235. Under the Cartwright Act, a "combination" is formed when the anti-  
 16 competitive conduct of a single firm coerces other market participants to involuntarily  
 17 adhere to the anti-competitive scheme.

18           236. The Android App Distribution Market is a valid antitrust market.

19           237. Google conditions distribution through the Google Play Store on  
 20 entering into the standardized DDA described above, including the Developer Program  
 21 Policies integrated therein. Through certain provisions in these agreements, Google  
 22 forces app developers to submit to conditions that unreasonably restrain competition in  
 23 the Android App Distribution Market.

24           238. Section 4.5 of the DDA provides that developers "may not use  
 25 Google Play to distribute or make available any Product that has a purpose that  
 26 facilitates the distribution of software applications and games for use on Android  
 27 devices outside of Google Play." Section 4.1 of the DDA requires that all developers  
 28 "adhere" to Google's Developer Program Policies. Under the guise of its so-called

1 “Malicious Behavior” Policy, Google prohibits developers from distributing apps that  
2 “download executable code [*i.e.*, code that would execute an app] from a source other  
3 than Google Play.” The DDA further reserves to Google the right to remove and  
4 disable any Android app that it determines violates either the DDA or its Developer  
5 Program Policies and to terminate the DDA on these bases. (§§ 8.3, 10.3.) These  
6 provisions prevent app developers from offering competing app stores through the  
7 Google Play Store, even though there is no legitimate technological or other impediment  
8 to distributing a competing app store through the Google Play Store.

9       239. These provisions have no legitimate or pro-competitive purpose or  
10 effect, and unreasonably restrain competition in the Android App Distribution Market.

11       240. Google’s conduct and practices have substantial anti-competitive  
12 effects, including increased prices and costs, reduced innovation, poorer quality of  
13 customer service, and lowered output.

14       241. Google’s conduct harms Epic which, as a direct result of Google’s  
15 anti-competitive conduct, has been unreasonably restricted in its ability to distribute its  
16 Android applications, including *Fortnite*, and to market a competing app store to the  
17 Google Play Store.

18       242. It is appropriate to bring this action under the Cartwright Act  
19 because many of the illegal agreements were made in California and purport to be  
20 governed by California law, many affected consumers reside in California, Google has  
21 its principal place of business in California, and overt acts in furtherance of Google’s  
22 anti-competitive scheme took place in California.

23       243. Epic has suffered and continues to suffer damages and irreparable  
24 injury, and such damages and injury will not abate until an injunction ending Google’s  
25 anti-competitive conduct issues.

**COUNT 9: California Cartwright Act**  
**(Unreasonable restraints of trade in Android In-App Payment Processing Market:**  
**Developer Distribution Agreement)**  
**(against all Defendants)**

244. Epic restates, re-alleges and incorporates by reference each of the allegations set forth in the rest of this Complaint as if fully set forth herein.

245. Google's acts and practices detailed above violate the Cartwright Act, Cal. Bus. & Prof. Code § 16700 *et seq.*, which prohibits, *inter alia*, the combination of resources by two or more persons to restrain trade or commerce or to prevent market competition. *See* §§ 16720, 16726.

246. Under the Cartwright Act, a “combination” is formed when the anti-competitive conduct of a single firm coerces other market participants to involuntarily adhere to the anti-competitive scheme.

247. The Android App Distribution Market and Android In-App Payment Processing Market, and, in the alternative, the Android Games Payment Processing Market, are valid antitrust markets.

248. Google has monopoly power in the Android In-App Payment Processing Market and, in the alternative, in the Android Games Payment Processing Market.

249. Google conditions distribution through the Google Play Store on entering into the standardized DDA described above, including the Developer Program Policies integrated therein. Through certain provisions in these agreements, Google forces app developers to submit to conditions that unreasonably restrain competition in the Android In-App Payment Processing Market.

250. Section 3.2 of the DDA requires that Android app developers enter into a separate agreement with Google's payment processor, Defendant Google Payment, in order to receive payment for apps and content distributed through the Google Play Store. This includes payments related to in-app purchases. Further, Google's Developer Program Policies, compliance with which Section 4.1 of the DDA

1 makes obligatory, require that apps distributed through the Google Play Store “must use  
2 Google Play In-app Billing [offered by Google Payment] as the method of payment” for  
3 in-app purchases. While Google’s Policies exclude certain types of transactions from  
4 this requirement, such as the purchase of “primarily . . . physical” goods and services or  
5 of digital content that may be consumed outside of the app itself, Google expressly and  
6 discriminatorily applies its anti-competitive mandate to all “Play-distributed apps . . . if  
7 they require or accept payment for access to features or services, including any app  
8 functionality, digital content or goods”, which includes *Fortnite*.

9       251. These provisions have no legitimate or pro-competitive purpose or  
10 effect, and unreasonably restrain competition in the Android In-App Payment  
11 Processing Market, and, in the alternative, in the Android Games Payment Processing  
12 Market.

13       252. Google’s conduct and practices have substantial anti-competitive  
14 effects, including increased prices and costs, reduced innovation, poorer quality of  
15 customer service and lowered output.

16       253. Google’s conduct harms Epic which, as a direct result of Google’s  
17 anti-competitive conduct, has been unreasonably restricted in its ability to distribute and  
18 use its own in-app payment processor.

19       254. It is appropriate to bring this action under the Cartwright Act  
20 because many of the illegal agreements were made in California and purport to be  
21 governed by California law, many affected consumers reside in California, Google has  
22 its principal place of business in California and overt acts in furtherance of Google’s  
23 anti-competitive scheme took place in California.

24       255. Epic has suffered and continues to suffer damages and irreparable  
25 injury, and such damages and injury will not abate until an injunction ending Google’s  
26 anti-competitive conduct issues.

**COUNT 10: California Cartwright Act**  
**(Tying Google Play Store to Google Play Billing)**  
**(against all Defendants)**

256. Epic restates, re-alleges and incorporates by reference each of the allegations set forth in the rest of this Complaint as if fully set forth herein.

257. Google's acts and practices detailed above violate the Cartwright Act, Cal. Bus. & Prof. Code § 16700 *et seq.*, which prohibits, *inter alia*, the combination of resources by two or more persons to restrain trade or commerce, or to prevent market competition. See §§ 16720, 16726.

258. Under the Cartwright Act, a “combination” is formed when the anti-competitive conduct of a single firm coerces other market participants to involuntarily adhere to the anti-competitive scheme.

259. The Cartwright Act also makes it “unlawful for any person to lease or make a sale or contract for the sale of goods, merchandise, machinery, supplies, commodities for use within the State, or to fix a price charged therefor, or discount from, or rebate upon, such price, on the condition, agreement or understanding that the lessee or purchaser thereof shall not use or deal in the goods, merchandise, machinery, supplies, commodities, or services of a competitor or competitors of the lessor or seller, where the effect of such lease, sale, or contract for sale or such condition, agreement or understanding may be to substantially lessen competition or tend to create a monopoly in any line of trade or commerce in any section of the State.” § 16727.

260. As detailed above, Google has unlawfully tied its in-app payment processor, Google Play Billing, to the Google Play Store through its DDAs with app developers and its Developer Program Policies.

261. Google has sufficient economic power in the tying market, the Android App Distribution Market, to affect competition in the tied market, the Android In-App Payment Distribution Market. With Google Play Store installed on nearly all Android OS devices and over 90% of downloads on Android OS devices being performed by the Google Play Store, Google has overwhelming market power.

1 Google's market power is further evidenced by its ability to extract supra-competitive  
2 taxes on the sale of apps through the Google Play Store.

3           262. The availability of the Google Play Store for app distribution is  
4 conditioned on the app developer accepting a second product, Google's in-app payment  
5 processing solution. Google's substantial foreclosure of alternative app distribution  
6 channels forces developers like Epic to use Google's in-app payment processing  
7 solution, which Google has expressly made a condition of reaching Android users  
8 through its dominant Google Play Store.

9           263. The tying product, Android app distribution, is separate and distinct  
10 from the tied product, Android in-app payment processing, because app developers such  
11 as Epic have alternative in-app payment processing options and would prefer to choose  
12 among them independently of how an Android app is distributed. Google's unlawful  
13 tying arrangement thus ties two separate products that are in separate markets.

14           264. Google's conduct substantially forecloses competition in the  
15 Android In-App Payment Processing Market and, in the alternative, in the Android  
16 Games Payment Processing Market, affecting a substantial volume of commerce in  
17 these Markets.

18           265. Google has thus engaged in a *per se* illegal tying arrangement and  
19 the Court does not need to engage in a detailed assessment of the anti-competitive  
20 effects of Google's conduct or its purported justifications.

21           266. Even if Google's conduct does not form a *per se* illegal tie, an  
22 assessment of the tying arrangement would demonstrate that it is unreasonable under the  
23 Cartwright Act, and therefore, illegal.

24           267. Google's acts and practices detailed above unreasonably restrain  
25 competition in the Android In-App Payment Processing Market and, in the alternative,  
26 in the Android Games Payment Processing Market.

27           268. Google's conduct harms Epic which, as a direct result of Google's  
28 anti-competitive conduct, is paying a supra-competitive commission rate on in-app

purchases processed through Google's payment processor and has forgone commission revenue it would be able to generate if its own in-app payment processor were not unreasonably restricted from the market.

269. As an app developer which uses in-app payment processing solutions and as the developer of a competing in-app payment processing tool, Epic has been harmed by Defendants' anti-competitive conduct in a manner that the antitrust laws were intended to prevent.

270. It is appropriate to bring this action under the Cartwright Act because many of the illegal agreements were made in California and purport to be governed by California law, many affected consumers reside in California, Google has its principal place of business in California, and overt acts in furtherance of Google's anti-competitive scheme took place in California.

271. Epic has suffered and continues to suffer damages and irreparable injury, and such damages and injury will not abate until an injunction ending Google's anti-competitive conduct issues.

## **COUNT 11: California Unfair Competition Law (against all Defendants)**

272. Epic restates, re-alleges and incorporates by reference each of the allegations set forth in the rest of this Complaint as if fully set forth herein.

273. Google's conduct, as described above, violates California's Unfair Competition Law, Cal. Bus. & Prof. Code §§ 17200, *et seq.*, which prohibits any unlawful, unfair or fraudulent business act or practice.

274. Epic has standing to bring this claim because it has suffered injury in fact and lost money as a result of Google’s unfair competition. Specifically, it develops and distributes apps for the Android mobile platform, and has developed and distributes a processor for in-app purchases, and Google’s conduct has unreasonably restricted Epic’s ability to fairly compete in the relevant markets with these products.

275. Google's conduct violates the Sherman Act and the Cartwright Act, and thus constitutes unlawful conduct under § 17200.

276. Google's conduct is also "unfair" within the meaning of the Unfair Competition Law.

277. Google's conduct harms Epic which, as a direct result of Google's anti-competitive conduct, is unreasonably prevented from freely distributing mobile apps or its in-app payment processing tool, and forfeits a higher commission rate on the in-app purchases than it would pay absent Google's conduct.

278. Epic seeks injunctive relief under the Unfair Competition Law.

## **PRAYER FOR RELIEF**

WHEREFORE, Plaintiff respectfully requests that the Court enter judgment in favor of Epic and against Defendants:

- A. Issuing an injunction prohibiting Google's anti-competitive and unfair conduct and mandating that Google take all necessary steps to cease such conduct and to restore competition;
  - B. Awarding a declaration that the contractual restraints complained of herein are unlawful and unenforceable;
  - C. Awarding any other equitable relief necessary to prevent and remedy Google's anti-competitive conduct; and
  - D. Granting such other and further relief as the Court deems just and proper.

1 Dated: July 21, 2021

2 Respectfully submitted,

3  
4 By: /s/ Paul J. Riehle

---

5  
6 **FAEGRE DRINKER BIDDLE &**  
**REATH LLP**

7 Paul J. Riehle (SBN 115199)  
8 paul.riehle@faegredrinker.com

9 Four Embarcadero Center  
10 San Francisco, California 94111  
Telephone: (415) 591-7500  
Facsimile: (415) 591-7510

11 **CRAVATH, SWAINE & MOORE LLP**

12 Christine A. Varney (*pro hac vice*)  
cvarney@cravath.com  
13 Katherine B. Forrest (*pro hac vice*)  
kforrest@cravath.com  
14 Gary A. Bornstein (*pro hac vice*)  
gbornstein@cravath.com  
15 Timothy G. Cameron (*pro hac vice*)  
tcameron@cravath.com  
16 Yonatan Even (*pro hac vice*)  
yeven@cravath.com  
17 Lauren A. Moskowitz (*pro hac vice*)  
lmoskowitz@cravath.com  
18 Justin C. Clarke (*pro hac vice*)  
jcclarke@cravath.com  
19 M. Brent Byars (*pro hac vice*)  
mbyars@cravath.com

20  
21 825 Eighth Avenue  
22 New York, New York 10019  
Telephone: (212) 474-1000  
Facsimile: (212) 474-3700